





B. G. FERRIS, JR., M. D.





THE CLASS OF 1963

HARVARD SCHOOL OF PUBLIC HEALTH

BOSTON, MASSACHUSETTS



The Class of 1963
Harvard School of Public Health
expresses its appreciation to
WINTHROP LABORATORIES
whose support made possible
the publication of
this book.

This book is the record of the Class of 1963.

Its members came from many countries:

United States	65
India	5
Pakistan	4
Holland	2
Iran	2
Japan	2
Philippines	2
Belgium	1
Canada	1
Republic of China (Formosa)	1
Germany	1
Great Britain	1
Greece	1
Lebanon	1
Palestine (refugee in Syria)	1
Spain	1
Switzerland	1

And they came from many professions and fields of endeavor:

Medicine	56
Statistics	7
Nutrition	6
Engineering	5
Social Work	4
Psychology	3
Public Health Nursing	3
Health Education	2
Anthropology	1
Chemistry	1
Dentistry	1
Hospital Administration	1
Industrial Hygiene	1
Radiation Biology	1
Radiation Health	1

But they came with a single purpose. They wanted to learn as much as they could about the complex disciplines of public health, so that they could leave Harvard better prepared for their future careers in service, teaching, and research. And so they spent a busy year studying, traveling, meeting informally with the faculty and their fellow students, and sharing the community life of Boston. This yearbook records the people, the places, and the events that made their year so memorable, pleasant, and rewarding.



HUGH RODMAN LEAVELL, S.B., M.D., Dr. P.H.

DEDICATION

IT is characteristic of Dr. Leavell that when he retires this summer, after 17 years as Professor and Head of the Department of Public Health Practice, he will continue to further the cause of international health as a Ford Foundation consultant to India on family planning, health education, and other public health problems. Dr. Leavell's career has been marked by exceptional service to the community, whether it be the world or the city. His persuasive influence has reached to Europe, Africa, South America and Asia, and his achievements for world health have been many.

His service to the nation has been equally great. He has been president of the American Public Health Association, president of the Association of Schools of Public Health, a member of two Hoover Commission task forces, and has served in many other important positions. In the midst of these national responsibilities, he has also found time to help his state and his local community.

Dr. Leavell has possessed the rare ability to combine a career of service, scholarship and teaching. He has solved problems of public health with the insight of the scholar, and to his classroom he has brought the tempered wisdom that comes from practical experience. As chairman of the School's largest department, he has influenced hundreds of students from this country and all over the world. To them he has been a wise teacher, helpful advisor, and warm friend, and to the faculty he has been a welcome companion and respected colleague. His career at Harvard has brought honor to the University, enlightenment to his profession, and better health to countless numbers throughout the world.

In dedicating this yearbook to Dr. Leavell, the Class of 1963 speaks for itself and for many preceding classes in acknowledging its gratitude for his help, and its admiration for his achievements.

JOHN CRAYTON SNYDER, A.B., M.D.

Dean of the School of Public Health

Henry Pickering Walcott Professor of Microbiology and Head of the Department



ADMINISTRATION OFFICERS

JAMES LAVERRE WHITTENBERGER, S.B., M.D., A.M. (hon.)
Assistant Dean of the School of Public Health

James Stevens Simmons Professor of Public Health
Professor of Physiology and Head of the Department



President—Nathan Marsh Pusey, Ph.D., LL.D., L.H.D.

Office: 1 Massachusetts Hall, Cambridge

Dean—John Crayton Snyder, A.B., M.D.

Assistant Dean—James Laverre Whittenberger, S.B., M.D., A.M. (hon.)

Assistant to the Dean and Faculty Advisor for Foreign Students—

William Hathaway Forbes, Dr.Phil., M.D.

Assistant to the Dean—Roger Benham Spaulding, A.B.

Assistant to the Dean—Robert Prentice Burden, S.D.

Assistant to the Dean—William Salisbury Alney, A.B.

Administrative Assistant to the Dean—Margaret Guss Barnaby, A.B.

Administrative Assistant to the Dean—William Leslie Claff, A.B., M.B.A.

Administrative Assistant to the Dean—Margaret Dale Penrose, A.M.

Seated, left to right—Mr. Spaulding, Mrs. Penrose, Dean Snyder, Dr. Whittenberger, Dr. Forbes.
Standing, left to right—Mrs. Sullivan, Mrs. Foxman, Miss Farragher, Miss Stephens, Miss Turchin,
Miss Godden, Mrs. Case, Miss Murphy, Miss Laskey.



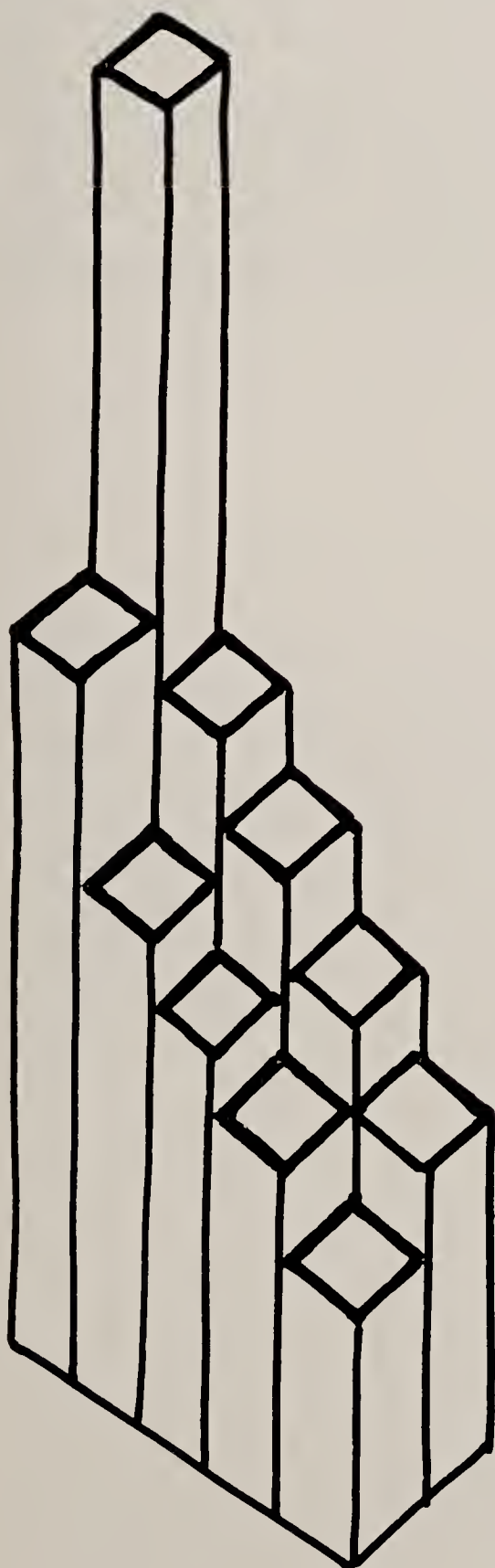
ACADEMIC DEPARTMENTS

THE academic departments of the School play a key role in each student's education. During the first part of the year, he receives instruction from nearly all of the departments to acquaint him with the many aspects of public health activity. Later in the year, as his work becomes more specialized, he begins to concentrate his studies in the department in whose specialty he is most interested. Frequently he plays a part in the research program of the department, and by his participation in the seminars and other programs of the department, he is able to contribute to, as well as learn from, its activities.

In view of the importance of the departments, each department head was asked to prepare a commentary on his department, its personnel and its programs. It was requested that special mention be made of the department's research studies and international activities. The resulting essays are given in the section that follows. Their varying content and choice of emphases illustrate quite well the diversity of interests and approaches that is typical of the School of Public Health.



DR. ROBERT B. REED
Professor of Biostatistics
and Head of the Department



BIOSTATISTICS



Left to right—Dr. Glasser, Mrs. Menken, Dr. Reed, Miss Bishop, Dr. Worcester, Miss Wasserboehr.

DEPARTMENT OF BIOSTATISTICS

Robert B. Reed, Ph.D., A.M. (hon.), *Professor of Biostatistics and Head of the Department*

Jane Worcester, A.B., Dr.P.H., *Professor of Biostatistics and Epidemiology*

Margaret E. Drolette, A.B., M.P.H., *Associate in Biostatistics (Absent 1962-63)*

Marvin N. Glasser, B.B.A., M.P.H., S.D. in Hyg., *Associate in Biostatistics and Epidemiology*

Paul M. Densen, A.B., S.D., *Visiting Lecturer on Biostatistics*

Yvonne M. M. Bishop, B.A., S.M. in Hyg., *Instructor in Biostatistics*

Jane A. Menken, A.B., S.M. in Hyg., *Assistant in Biostatistics*

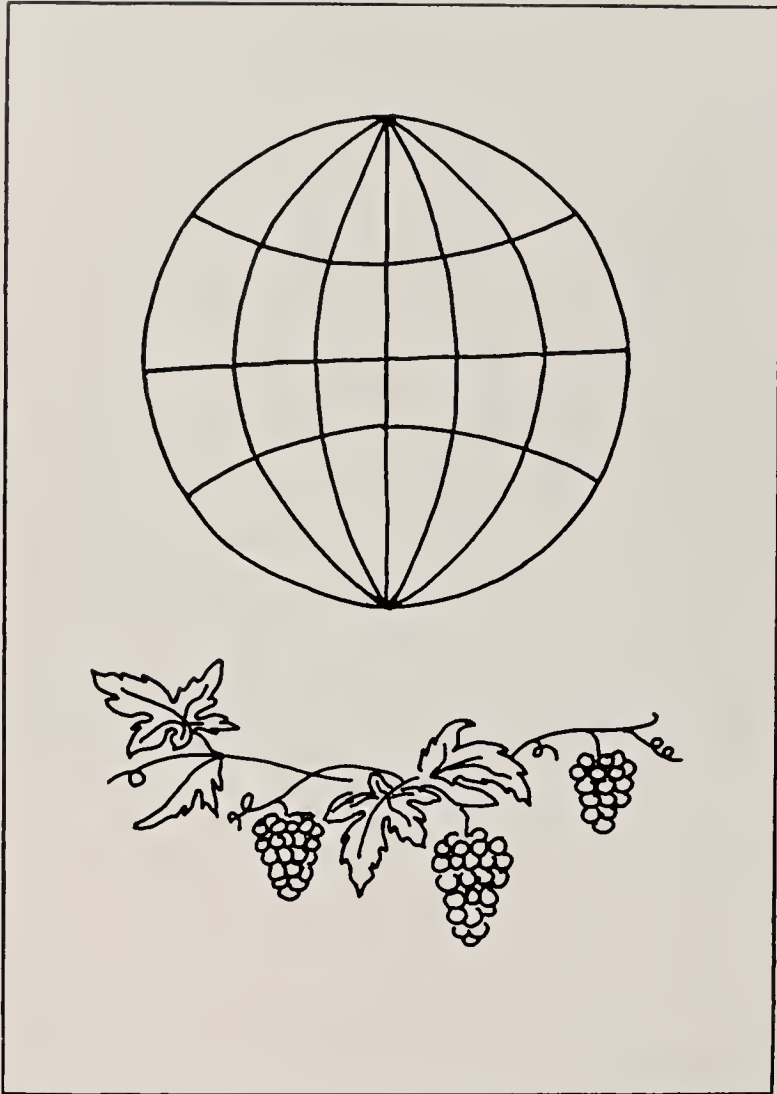
THE Department of Biostatistics goes about its work with a well-recognized bias—a bias in favor of explicit and quantitative formulation of all statements about public health. As Moroney puts it in one of the chapter titles in his "Facts from Figures," statistics is the art of learning "how to be precise though vague." All students at the School are exposed to this art through the Department's teaching and this teaching constitutes the major focus of interest and the largest expenditure of energy of the Department members.

In addition to trying to spread the gospel of statistics throughout the School of Public Health as a whole, the Department is, of course, also concerned with training biostatistical specialists who will carry on the good work at other times and places.

During the current year, the Department of Biostatistics has been caught up in the frenzied activities of the computer age. As spring approached, the installation of an I.B.M. machine unit in the basement of No. 1 Shattuck Street was just being completed. This unit, which has a range of punch card equipment from the basic punch through the 101 statistical sorter up to the 1620 computer, is expected to contribute in many ways to the teaching of data processing methods and to serve as a link to the University's larger computer center at Cambridge. The computer will be available to students for work on their problems (possibly even including laboratory problems in Biostatistics 1 a, b), and for research work in the school generally.

The research activities of the members of the Department of Biostatistics reflect the broad range of problems in public health where statistical methods are of particular importance combined with certain idiosyncrasies in the interests of Department members. Thus, during the present year, major pieces of work have been done on problems of cancer epidemiology, child growth and development, ophthalmology and genetics. Less intensively, the staff is continually involved in a wide range of consultation on the design and analysis of studies being carried out not only at the School of Public Health but in the Boston medical community generally.





DEMOGRAPHY and HUMAN ECOLOGY

DR. JOHN C. SNYDER
Henry Pickering Walcott
Professor of Microbiology,
Acting Head of the Department





Left to right—Dr. Wyon, Dr. Snyder, Dr. Forbes.

DEPARTMENT OF DEMOGRAPHY AND HUMAN ECOLOGY

John C. Snyder, A.B., M.D., *Henry Pickering Walcott Professor of Microbiology,
Acting Head of the Department*

William H. Forbes, M.D., Ph.D., *Lecturer on Physiology. Assistant to the Dean, and
Faculty Advisor to Foreign Students*

John B. Wyon, M.B., B.Ch., M.P.H., *Assistant Professor of Population Studies*

Ansley J. Coale, Ph.D., *Visiting Lecturer in Demography*

Ronald Freedman, Ph.D., *Visiting Lecturer in Demography*

Stephen J. Plank, Ph.B., A.B., M.D., M.P.H. *Teaching Fellow in Demography and
Human Ecology*

THE rapid geometric increase in the world's population is attributable in part to the application of scientific and medical discoveries of the nineteenth and twentieth centuries which have lowered death rates and prolonged life, but the increases in population density now occurring in several areas of the world are so large that future economic and social advances will be vitiated. The former president of the World Bank is quoted as saying, "Population growth threatens to nullify all our efforts to raise living standards in many of the poorer countries. We are coming to a situation in which an optimist will be the man who thinks that present living standards can be maintained. . . ."

The magnitude of the population problem in some of the underdeveloped areas tends to obscure the fact that highly industrialized countries may also fall prey to

the serious consequences of a rapid increase in population density. The combination of poverty and dense crowding of underprivileged people has disastrous effects on the social and economic gains won by civilization over the centuries and amply justifies apprehension over the increasing size of the world's population. There is a more subtle aspect, however, which should also be faced: the social and political institutions of our present civilization, which place high value on human life, have suspended the operation of the forces of natural selection in the Darwinian sense. Major changes therefore can be expected in the quality of future generations from the viewpoint of genetics and heredity. The conclusion we must accept is that there are many independent forces acting to determine the quantity and quality of the world's population.

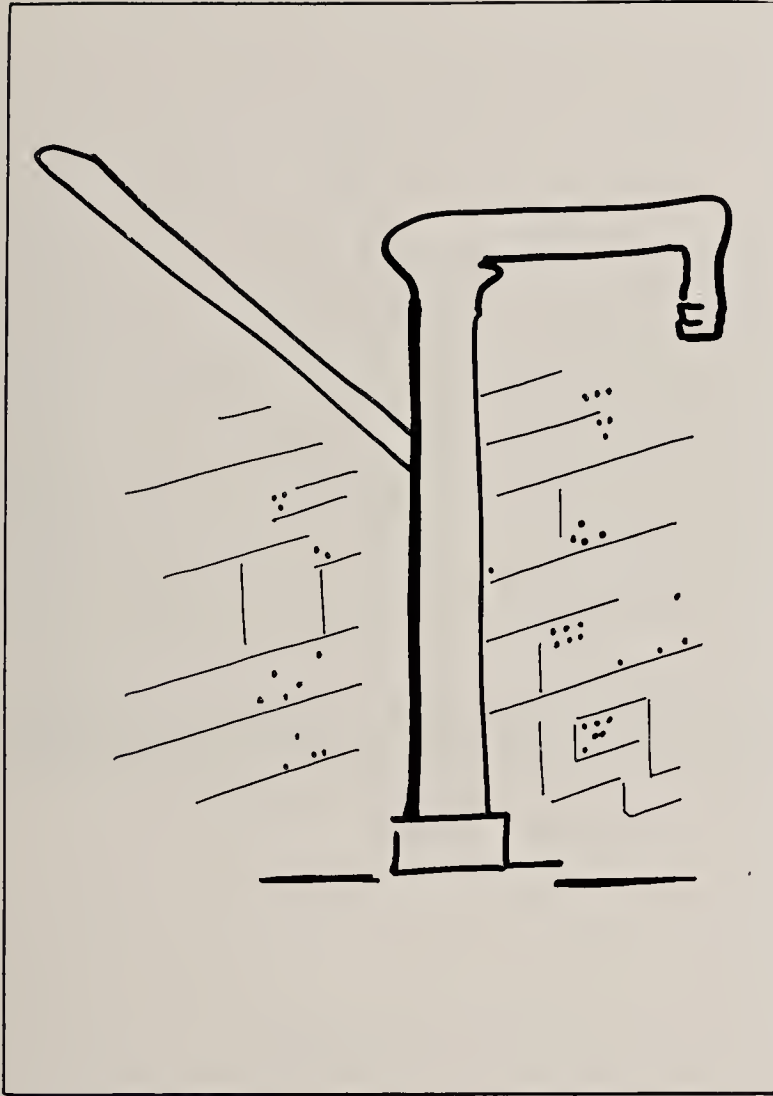
The profession of public health too long has focused its attention on prevention of death and disability without concern for the physical and social effects on mankind which are the consequences of overcrowding and poverty. Extensive studies and research are needed if intelligent action is to be taken. Moreover, the activities of the public health expert must be closely integrated with those of the officials responsible for planning economic development, programs of general education, nutrition and agriculture.

The Harvard School of Public Health is convinced that by means of intelligent observation and experiment and by means of action skillfully conceived and executed, it will be possible to influence the behavior of man for the achievement of health on a scale undreamed of a century ago. Accordingly, the School has inaugurated a new department under the title Demography and Human Ecology. Its purposes are (a) to study the effects of public health measures on the quality as well as the density of population; and (b) to identify and evaluate the basic forces which influence the efforts of governments or of local groups to regulate their population growth.

The complexity of the population problem is such that cooperation will be needed from the experts of many disciplines, especially demography, psychology, genetics, and economics. The traditional public health sciences will also be involved. These are epidemiology, biostatistics, physiology and nutrition, the latter providing also cognizance of potentials in food production.

The Department is in the embryonic stage of its development and is receiving active cooperation from members of several other departments in the School. Special seminars are in progress and more formal instruction will be presented next year. Drs. Snyder, Forbes and Wyon are assisted by Dr. Stephen Plank who is a teaching fellow and also a doctoral candidate investigating the immunologic aspects of fertility as his thesis problem.





EPIDEMIOLOGY

DR. BRIAN MACMAHON
Professor of Epidemiology
and Head of the Department





Seated, left to right—Dr. Glasser, Dr. Jorge Roman (Chile), Dr. MacMahon, Dr. Pugh, Dr. Salber. Standing—Dr. Hutchison, Dr. Damon, Dr. Wechsler, Dr. Poskanzer, Dr. Segall.

DEPARTMENT OF EPIDEMIOLOGY

Brian MacMahon, M.D., Ph.D., S.M. in Hyg., *Professor of Epidemiology and Head of the Department*

Jane Worcester, A.B., Dr.P.H., *Professor of Biostatistics and Epidemiology*

Thomas F. Pugh, M.D., M.P.H., *Associate Professor of Epidemiology*

Albert Damon, A.B., Ph.D., M.D., *Associate Professor of Epidemiology*

George B. Hutchison, A.B., M.D., M.P.H., *Associate Professor of Epidemiology*

Marvin N. Glasser, B.B.A., M.P.H., S.D. in Hyg., *Associate in Biostatistics and Epidemiology*

Ernest M. Gruenberg, A.B., M.D., Dr.P.H., *Visiting Lecturer on Epidemiology*

Morris Siegel, M.D., M.P.H., *Visiting Lecturer on Epidemiology*

Vaun A. Newill, S.B., M.D., S.M. in Hyg., *Visiting Lecturer on Epidemiology*

Eva J. Salber, M.B., Ch.B., D.P.H., M.D., *Senior Research Associate in Epidemiology*

Ascher J. Segall, M.D., M.P.H., Dr.P.H., *Research Associate in Epidemiology*

Samuel G. McClellan, A.B., M.D., M.P.H., *Research Associate in Epidemiology*

David C. Poskanzer, A.B., M.D., M.P.H., *Research Associate in Epidemiology*

IN the investigation of both infectious and non-infectious diseases international epidemiologic studies have been and will continue to be of great value. This is recognized in the recent change in policy of the World Health Organization whereby this organization now accepts as one of its functions the sponsorship and support of international epidemiologic research, in addition to its traditional service and advisory functions.

So far as the current program of the Department of Epidemiology is concerned, the main interest in international studies is in their usefulness in investigating problems in the malignant diseases. Teaching in the department, however, acquires a much greater variety of international flavors through the combined Epidemiology and Biostatistics departmental seminar. The wide range of experience of the participants in this course brings a group of research problems as variegated as the world's health. Some of these activities can be mentioned in the context of a discussion of the reasons why international studies are desirable.

International cooperative studies may be required because the number of cases or persons exposed may be insufficient in any one country to test a particular hypothesis. For example, to study the incidence of leukemia in women treated for cancer of the uterine cervix with ionizing radiation requires at least 60,000 person years of observation of such patients. To do such a study we have organized with two American colleagues and the support of WHO, a study now in progress in 27 large cancer centers, 21 in Europe and 6 in America. This has required individual visits to the participating centers as well as a joint meeting in Geneva. The problems encountered in seeking not only cooperation but also financial assistance from governmental or other agencies in nine different countries have provided an interesting experience which can prove useful in any future endeavors of this nature.

International studies may be required because exposures or other circumstances that need to be investigated are present only, or predominantly, in certain areas of the world. High background radioactivity levels in certain parts of India and Brazil, for example, make these areas prime targets for epidemiologic studies, but no studies have been started in these areas, although preliminary discussions have been held. A related type of epidemiological problem arises when a disease is localized to certain areas so that one can presume that the causal agents are similarly limited. We heard in our seminar, for example, a design for the investigation of Bangu ngut, or fatal nightmare syndrome, a cause of death almost completely confined to the Philippines.

International studies may be prompted by the observation of striking international variations in disease frequency. It seems reasonable to ask whether the circumstances associated with very low disease frequencies in certain countries can be identified, and, if so, whether this information has practical application in high incidence countries. Concurrent studies in both high and low incidence countries offer a better chance of identifying the relevant circumstances than do studies in either high or low incidence countries alone. To this end, the department is currently trying to organize an international cooperative study of breast cancer with six or seven participating institutions in several parts of the world.

Lastly, the political, administrative, or demographic characteristics of certain areas may favor carrying out in these areas epidemiologic studies which would be difficult or entirely impossible in other areas. An example of this is the existence in Lebanon of two population groups of similar social circumstances and living conditions, one circumcised and one not. This makes Lebanon an ideal place for a study of cancer of the uterine cervix. Although this is really a national rather than an international study, it is international in the sense that the study was designed here by one of the departmental seminar participants and the department hopes to keep close contact with it as it develops.

The latter situation is frequent. The school, because of the international origins of its student body, has an excellent opportunity to keep in touch with developments in health research throughout the world. Through the influence that we have on students while in the school, and by keeping in contact with alumni, the department has unusual opportunities for imparting an international flavor to many studies which are predominantly national in character.

The basic problems of design of epidemiologic research are universal. The problem of making a study practicable by translating concepts into operational definitions recurs in every setting. To the extent that any course in epidemiology given to the student body at this school provides experience in coping with such problems, it is a course in international epidemiologic research.





DR. LESLIE SILVERMAN
Professor of Engineering in
Environmental Hygiene
and Head of the Department

INDUSTRIAL HYGIENE





Seated, left to right—Miss Corrigan, Mr. Burgess, Mr. Dennis, Dr. Silverman, Dr. First, Dr. Shapiro, Mrs. Rubenstein. Standing—Mr. Gussman, Dr. Yoder, Mr. Krusen, Mr. Baldwin, Mrs. Croteau, Miss Golich, Mr. Wiedeman, Dr. Devir, Mr. Toohey, Mr. Thompson, Mr. Kyritsis.

DEPARTMENT OF INDUSTRIAL HYGIENE

Leslie Silverman, S.B., S.M., S.D., *Professor of Engineering in Environmental Hygiene and Head of the Department*

Charles R. Williams, Ph.D., *Associate Professor of Applied Industrial Hygiene*

George F. Wilkins, A.B., M.D., *Associate Clinical Professor of Occupational Medicine*

Charles E. Billings, S.M., *Associate Professor of Industrial Hygiene Engineering*

Richard Dennis, S.M., *Assistant Professor of Industrial Hygiene*

Jacob Shapiro, S.B., S.M., Ph.D., *Assistant Professor of Biophysics in Environmental Hygiene*

William A. Burgess, S.M., *Assistant Professor of Environmental Health and Safety Engineering*

Allen D. Brandt, S.D., *Visiting Lecturer on Industrial Hygiene Engineering*

Nathan Van Hendricks, S.B., Chem.E., *Visiting Lecturer on Industrial Hygiene Engineering*

Lawrence C. Cooke, *Visiting Lecturer on Industrial Hygiene*

James M. Austin, M.A., S.D., *Visiting Lecturer on Meteorology and Air Pollution*

Allen L. Cudworth, S.M., *Visiting Lecturer on Control of Noise in Industry*

Ashley St. Clair, A.B., LL.B., *Visiting Lecturer on Workmen's Compensation*

Robert Yoder, B.S., S.D. in Hyg., *Associate in Radiological Hygiene*

Melvin W. First, S.D., *Senior Research Associate in Industrial Hygiene Engineering*

Robert A. Gussman, S.B. in Mech. Engineering, S.M. in I.H., *Research Associate in Industrial Hygiene Engineering*

George C. Krusen, II, S.M., *Research Associate in Industrial Hygiene Engineering*

Charles A. Mitchell, S.M., *Assistant in Industrial Hygiene*

Theodore Georgiadis, B.S., *Research Fellow in Industrial Hygiene*

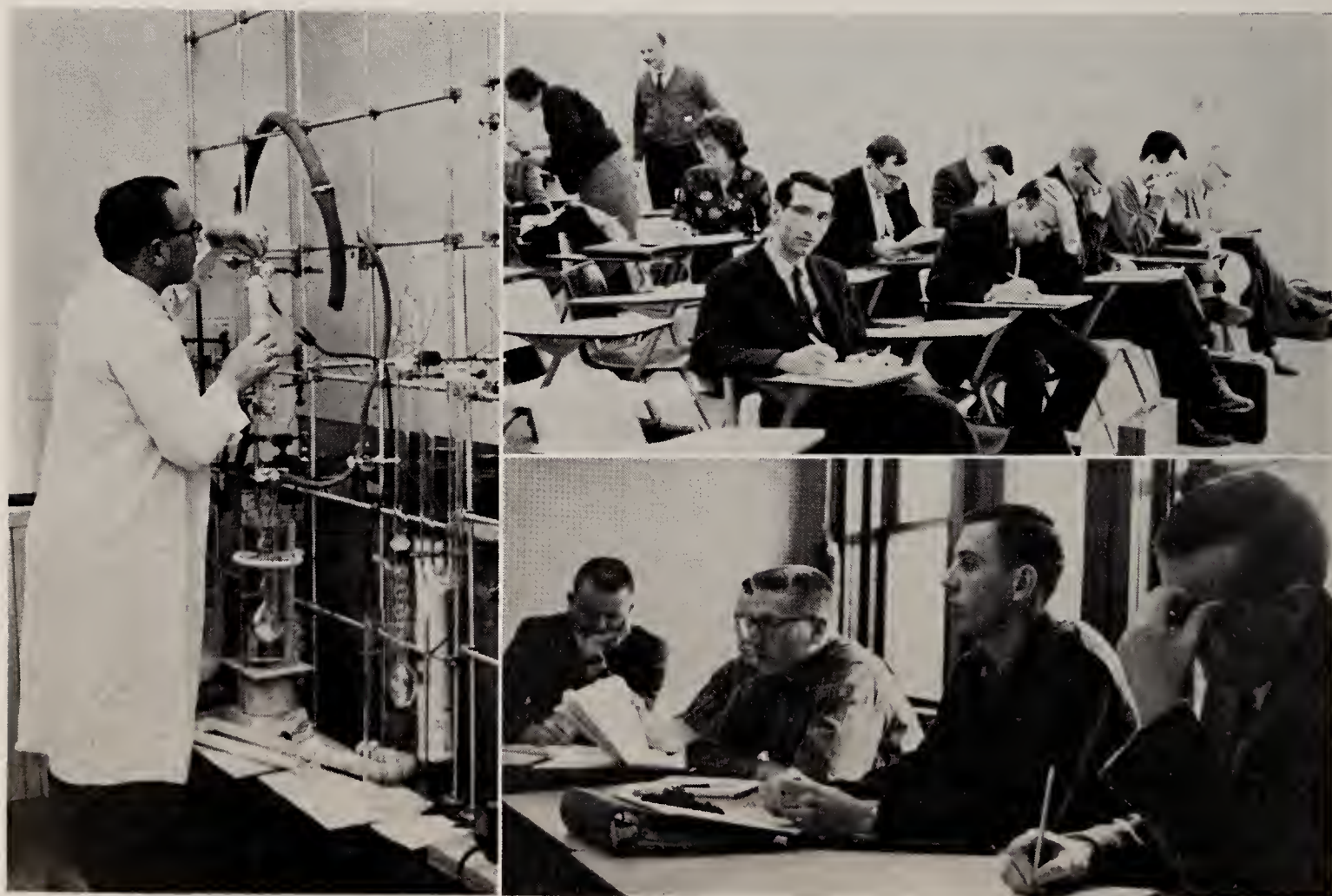
THIS year marks the first in which the department has occupied its space in the new Kresge Center for Environmental Health and Safety. It also is the first time since 1950 that the complete research facilities of the Department have been located in the same building. The Harvard Air Cleaning Laboratory, which for twelve years had been in leased quarters, was moved in January, 1963, to the new pilot plant and adjoining laboratories in the basement. The department offices and laboratories, which were at 55 Shattuck Street, were moved in late August. While the new quarters are most welcome, the staff and the students are suffering some from the "debugging" operation which apparently is necessary in any new facility like ours with novel aspects and special equipment. The move also forced the staff to curtail their foreign activities for this year.

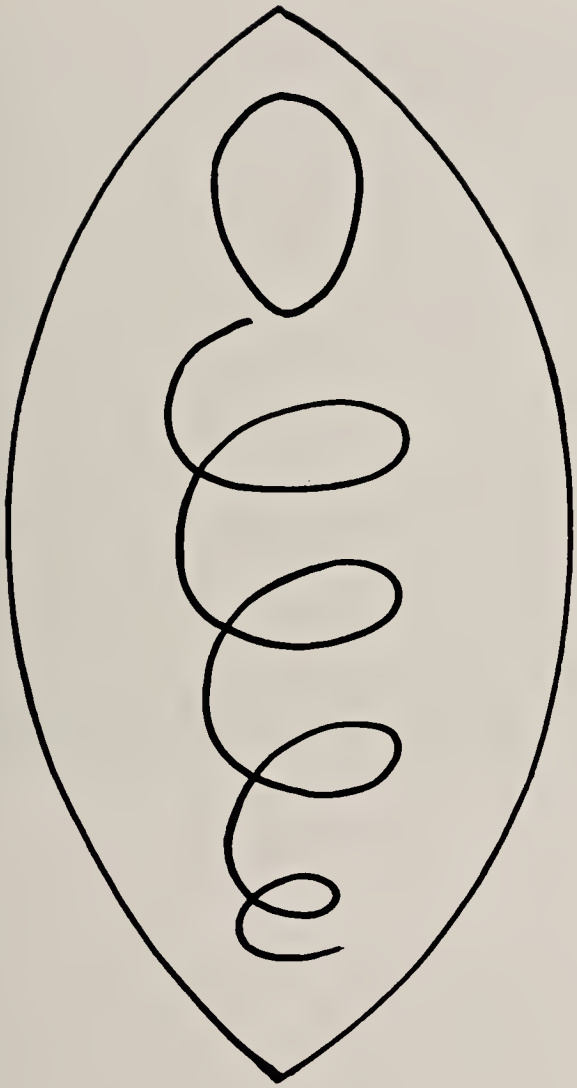
As in the past, the full-time teaching and research staff of the department is composed primarily of engineers, physicists and chemists, with a part-time staff from the medical and biological specialties. The Department of Physiology, through the Division of Environmental Hygiene, provides teaching support in the physiologic and toxicologic areas. Dr. Shapiro and Professor Burgess, two members of our staff, also provide part of their time to the Division of Environmental Health and Safety of the University Health Services. Harvard has a faculty, staff, and employee group as large as its student body of nearly 10,000. This combination of students and staff makes it comparable to a large diversified research and development laboratory with a wide variety of potential occupational health problems. For example, over 150 laboratories in the University and its affiliated teaching hospitals use various radioisotopes. This "in-house" situation provides an excellent field study opportunity for student observation and training.

The department conducts a broad program of research activities. Studies are underway on the control of radioactive hazards associated with nuclear energy processes such as power and test reactors, the use of radioisotopes and methods of detecting radiation in small quantities. Research is also continuing on the control of air pollution from steel making processes, and the behavior of inert and radioactive aerosols. A basic program on evaluation and development of protective respiratory devices is also in progress. A new research program which involves a systems analysis approach to central waste management for urban communities is being developed in cooperation with the Harvard-MIT Center for Urban Studies. It is hoped that this study will lead to a systematic procedure for disposing of solid wastes which now cause serious air pollution problems in large urban communities. At the present time the department has two research contracts with the U.S. Atomic Energy Commission and one with the American Iron and Steel Institute. A Department of Physiology research grant from the Public Health Service on deposition of particles in the respiratory tract receives physical sciences support from our staff.

The teaching aims of the department are to train specialists in industrial medicine and hygiene, air pollution control, and radiological health. In addition, the department provides support in offering some course work in environmental health concepts for all students. At the present time, students in the department courses come from both the School of Public Health and the Division of Engineering and Applied Physics of the Graduate School of Arts and Sciences.

Members of the department staff serve on several important national committees and provide consultation to various industry and government groups. Dr. Silverman and Dr. Williams are each in their second four-year term on the Statutory Advisory Committee on Reactor Safeguards of the U.S. Atomic Energy Commission. This committee must review all power and test reactors for their safety features in protecting the health and safety of the public.





MATERNAL and CHILD HEALTH

DR. WILLIAM M. SCHMIDT
Professor of Maternal and
Child Health
and Head of the Department





Seated, left to right—Dr. Mason, Dr. Valadian, Dr. Schmidt, Miss Rice, Dr. Miller. Standing—Dr. Sternfeld, Miss Ekdahl, Miss Brum, Mrs. Krakow, Miss Cohn, Dr. Robinson, Mrs. Cowin, Mrs. Perlman.

DEPARTMENT OF MATERNAL AND CHILD HEALTH

William M. Schmidt, S.B., M.D., A.M. (hon.), *Professor of Maternal and Child Health and Head of the Department*

Elizabeth P. Rice, A.B., S.M., *Associate Professor of Public Health and Social Work*

Leon Sternfeld, S.B., M.D., Ph.D., M.P.H., *Associate Clinical Professor of Maternal and Child Health*

Edward A. Mason, A.B., M.D., *Assistant Professor of Mental Health*

Isabelle Valadian, M.D., M.P.H., *Assistant Professor of Maternal and Child Health*

Harold Jacobziner, S.B., M.D., M.P.H., *Visiting Lecturer on Maternal and Child Health*

Arthur J. Lesser, A.B., M.D., M.P.H., *Visiting Lecturer on Maternal and Child Health*

Pauline G. Stitt, M.D., M.P.H., *Visiting Lecturer on Maternal and Child Health*

Samuel B. Kirkwood, A.B., M.D., S.D. (hon.), *Visiting Lecturer on Maternal Health*

Edwin M. Gold, S.B., M.D., *Visiting Lecturer on Maternal and Child Health*

Alan F. Guttmacher, A.B., M.D., *Visiting Lecturer on Maternal Health*

Derek Robinson, M.B., Ch.B., D.C.H., D.P.H., M.D., *Instructor in Maternal and Child Health*

Benjamin Sachs, A.B., M.D., M.P.H., *Instructor in Maternal and Child Health*

Ilse E. Gorbach, A.B., M.D., M.P.H., *Instructor in Child Health*

Helen D. Cohn, R.N., M.P.H., *Instructor in Applied Public Health Nursing*

Zelma B. Miller, S.B., Ph.D., *Senior Research Associate in Maternal and Child Health*

Miriam C. Ekdahl, S.B., S.M. in S.S., *Assistant in Social Work*

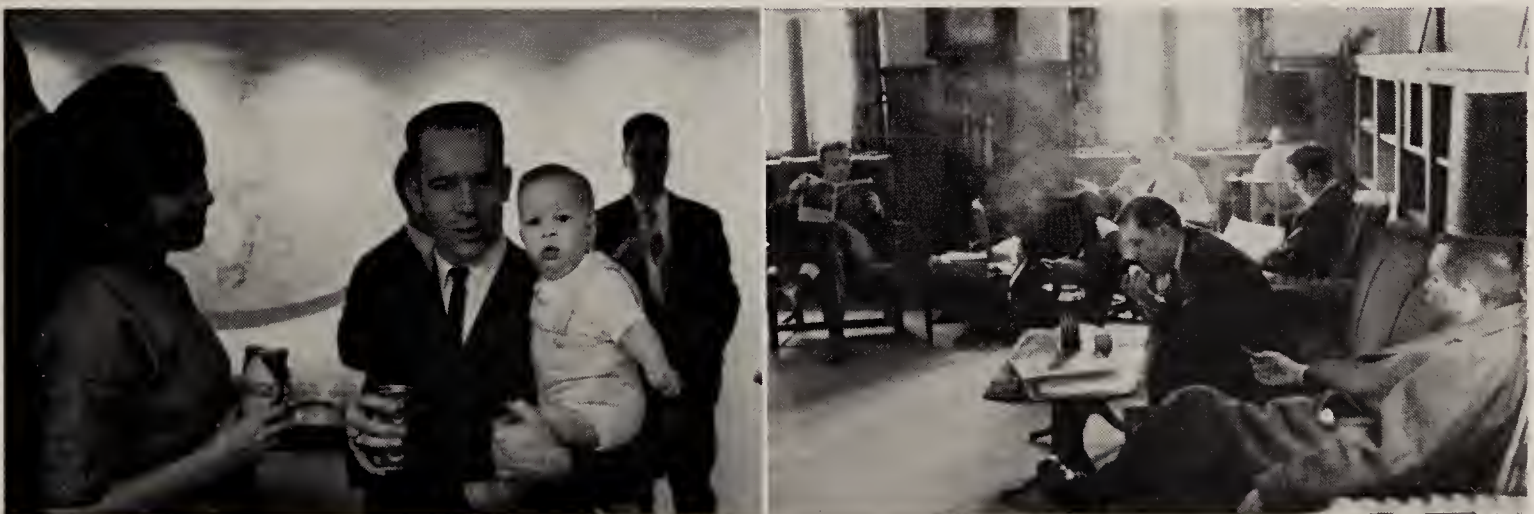
Sylvia G. Krakow, S.B., M.S.W., *Assistant in Social Work*

Ruth A. Cowin, S.B., S.M., *Assistant in Social Work*

1947 was the first year in which a program of concentration for students with a major interest in Maternal and Child Health was offered. Since then, there have been 137 concentrators in this field. The Department has found satisfaction in having continuing contact with a large number of them. Many are now teaching, or directing Maternal and Child Health programs in local, state, national, and international health organizations. In the past year 96 of them have returned questionnaires on their current activities. Eighty-eight of those who returned the questionnaires indicated that they continue to be engaged in public health. Of these, 48 have moved into positions of increased and more general responsibility or into related fields of work, often while continuing some activity and responsibility for MCH teaching or services, and the Department can be proud of the accomplishments of these former students.

The Department has continued to maintain an active research program. Members of the Department are engaged in studies of the care of children of parents admitted to a mental hospital. Having determined in a first study that there is little organized health or social service effectively reaching such children a second phase is in progress, to investigate methods of making services promptly available at the time of the parent's hospitalization. Other studies have to do with the functions of physician, nurse, and social worker in child health supervision in a community with a high prevalence of health and social problems. The Department has recently participated in a survey of Maternal and Child Health programs in Boston.

Maternal and Child Health is usually the first of the personal health services to be introduced in countries which are developing their health programs, but it also plays a role of continuing importance in the more developed countries. For example, in the U.S. there is need to further reduce the infant, especially perinatal, mortality rates and to improve methods of approaching special problems—particularly those leading to handicapping conditions—using this term in its widest sense. The Maternal and Child Health concentrators will be contributing to achieve these aims.





MICROBIOLOGY



DR. JOHN C. SNYDER
Henry Pickering Walcott
Professor of Microbiology
and Head of the Department





Seated, left to right—Dr. Murray, Dr. Chang, Dr. Edsall, Dr. Snyder, Miss Campbell, Dr. Bell, Dr. Ley. *Standing*—Mrs. Spielman, Mrs. O'Connor, Miss Bunzl, Mrs. Owens, Dr. Arsenian, Dr. Martinez-Silva, Dr. Polet, Dr. Vinson, Mrs. Franz, Miss Gear, Mrs. Rota, Mrs. Miskoe, Miss Carson.

DEPARTMENT OF MICROBIOLOGY

John C. Snyder, A.B., M.D., Henry Pickering Walcott Professor of Microbiology and Head of the Department
 Geoffrey Edsall, M.D., Professor of Applied Microbiology
 Edward S. Murray, A.B., M.D., M.P.H., Associate Professor of Microbiology and Assistant Physician to University Health Services
 Samuel D. Bell, Jr., A.B., M.D., M.P.H., Associate Professor of Microbiology
 Robert S. Chang, B.Sc., M.D., S.D. in Hyg., Associate Professor of Microbiology
 Charlotte C. Campbell, B.S., Associate Professor of Medical Mycology
 Robert A. MacCready, S.B., M.D., Associate in Microbiology and Director of Diagnostic Laboratories, Department of Public Health of Massachusetts
 James A. McComb, D.V.M., Associate in Public Health Immunology and Director of Biologic Laboratories, Department of Public Health of Massachusetts
 Robert B. Pennell, S.M., Ph.D., Lecturer on Immunology
 Herald R. Cox, A.B., S.D., S.D. (hon.), Visiting Lecturer on Microbiology
 Robert J. Huebner, M.D., Visiting Lecturer on Microbiology
 John H. Hanks, S.B., Ph.D., Visiting Lecturer on Microbiology
 Charles H. Rammelkamp, M.D., Visiting Lecturer on Microbiology
 Catharine Atwood, A.B., Instructor in Public Health Bacteriology
 Nadim A. Haddad, B.A., M.D., M.P.H., Research Associate in Microbiology (Absent 1962-63)
 John W. Vinson, S.B., S.D., in Hyg., Research Associate in Microbiology
 Roger L. Nichols, A.B., M.D., Research Associate in Microbiology (Absent 1962-63)
 Dorothy E. McComb, S.B., Assistant in Microbiology
 Leo Levine, S.B., Assistant in Microbiology
 Jirair Arsenian, M.D., Research Assistant in Microbiology
 Herman Polet, M.D., Research Fellow in Microbiology

THE Department of Microbiology combines its teaching interests with research on infectious disease problems in distant areas. In teaching, the six-unit course on ecology and epidemiology of infectious diseases is the staff's major endeavor, in collaboration with the Department of Tropical Public Health. Other courses are concerned with public health laboratory methods, rickettsial and viral diseases, research methods, and applied immunology.

The special research interests of the department include rickettsial diseases, properties of human cells in tissue culture, biochemical aspects of genetic factors, trachoma, and immunologic problems of the host-parasite relationship. Mycology is a new area of interest being developed jointly with the Department of Tropical Public Health.

In Yugoslavia the department is carrying on a collaborative study on the immunization of man against rickettsial diseases. In conjunction with the Arabian American Oil Company, the department is carrying on research on trachoma in Portugal, Hong Kong, Ethiopia, Arabia, and Arizona, U.S.A. In this project trachoma strains from various areas have been isolated and studies are in progress attempting to discover a method of immunizing children against the damaging effects to the cornea produced by trachoma viruses.

The Department has a close association with the Institute of Laboratories of the Massachusetts Department of Public Health and several of the staff members have joint appointments.

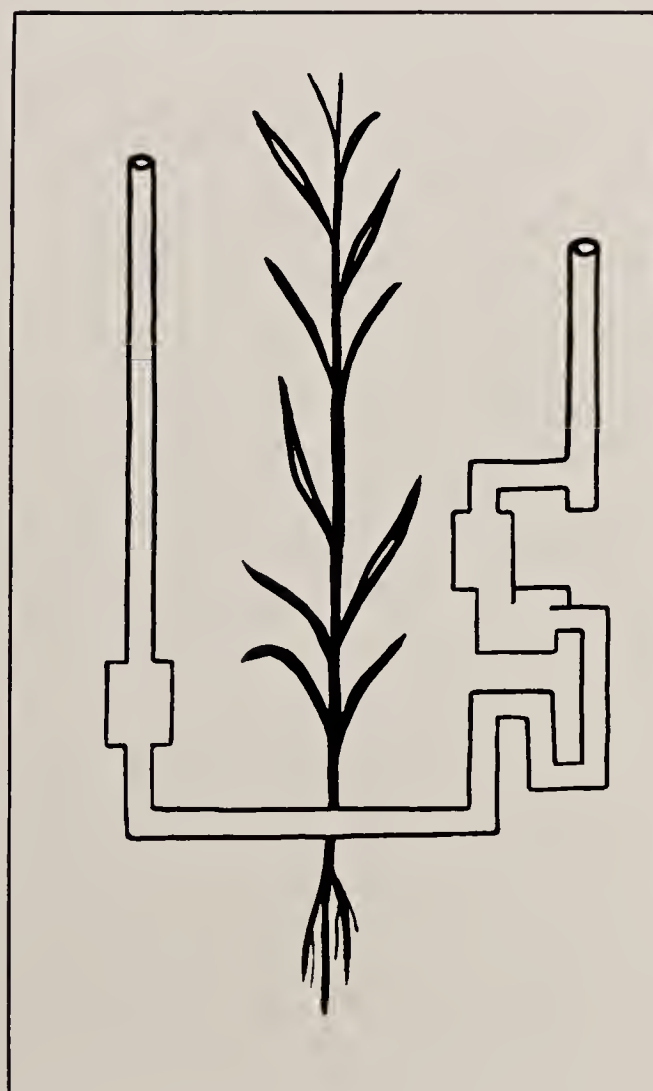
Drs. Snyder, Edsall, Murray, Chang, Bell, Ley, Vinson and Miss Charlotte Campbell are the staff members who are best known to those taking the departmental courses. The new additions to the Microbiology staff this year are Dr. Herbert Ley in Virology and Immunology and Miss Charlotte Campbell, Medical Mycologist.





DR. FREDRICK J. STARE
Professor of Nutrition
and Head of the Department

NUTRITION





Left to right—Miss Stefanik, Dr. Geyer, Miss Myers, Dr. McGandy, Dr. Hegsted, Dr. Stare, Dr. Trulson, Dr. Portman, Dr. Vitale.

DEPARTMENT OF NUTRITION

Fredrick J. Stare, S.M., Ph.D., M.D., A.M. (hon.), Professor of Nutrition and Head of the Department
 David M. Hegsted, S.M., Ph.D., Professor of Nutrition
 Robert P. Geyer, S.M., Ph.D., Associate Professor of Nutrition
 Jean Mayer, B.A., Ph.D., D.Sc., Associate Professor of Nutrition and Lecturer on the History of Public Health
 Martha F. Trulson, S.B., M.P.H., S.D. in Hyg., Associate Professor of Nutrition
 Stephen B. Andrus, S.B., M.D., Assistant Professor of Pathology
 Stanley N. Gershoff, A.B., S.M., Ph.D., Assistant Professor of Nutrition
 Oscar W. Portman, S.B., M.D., Assistant Professor of Nutrition
 Joseph J. Vitale, S.M., S.D. in Hyg., Assistant Professor of Nutrition
 Bernard Lown, S.B., M.D., Assistant Professor of Medicine
 Maria Banasiewicz-Rodriguez, M.D., M.P.H., Associate in Nutrition
 Robert B. McGandy, M.D., M.P.H., Associate in Nutrition
 Madge L. Myers, A.B., S.M., Instructor in Nutrition
 Patricia A. Stefanik, S.M., Instructor in Nutrition
 Edwin L. Prien, A.B., A.M., M.D., Clinical Research Associate in Nutrition
 F. Russell Olsen, A.B., Research Associate in Nutrition
 Leonardo Sinisterra, M.D., S.M. in Hyg., Research Associate in Nutrition (Absent 1962-63)
 Robert E. Clancy, M.D., Research Associate in Medicine
 Oscar M. Jankelson, M.D., Research Associate in Medicine
 Jolane P. Solomon, A.B., Ph.D., Research Associate in Nutrition
 Motoomi Nakamura, M.D., Dr.Med.Sc., Research Associate in Nutrition (Absent 1962-63)
 Ethel J. Bowie, S.B., Assistant in Nutrition
 Dorothy Bruno, S.B., Assistant in Nutrition
 Atsushi Iwamoto, M.D., Ph.D., Research Fellow in Nutrition
 Paul N. Rozin, Ph.D., Research Fellow in Physiological Psychology in the Department of Nutrition

THE Department of Nutrition has had the privilege over the years of training students who today have major responsibilities in research, education, and administration in various parts of the world. At least three former students are deans of important schools (one of public health, one of nutrition, and one of home economics), several are professors of nutrition or of biological chemistry, and others are professors of preventive medicine or of medicine.

The composition of the senior staff of the Department has remained remarkably constant over the years. As a result, each one of the main units of the Department—namely, those concerned with appetite and obesity, with nutritional factors in atherosclerosis, with etiology of urinary stones, and with intravenous fat feeding and cellular utilization of fat—has been able to develop to the point where it is one of the best units working on that particular project in the nation.

It should be emphasized that the range of interest on each of the topics covered extends not only to laboratory research but also to application in both clinical and public health programs. These are conducted not only in this country but in many parts of the world as well. The Department currently has active projects in South America, Japan and Southeast Asia and also collaborates closely with local hospitals. For example, the studies of atherosclerosis not only involve experimental work on rats and monkeys, but also clinical work at the Peter Bent Brigham Hospital, the West Roxbury Veterans Hospital, and the Massachusetts General Hospital. They are supplemented by epidemiological studies involving comparisons of groups in America, with groups of siblings of the American subjects living in Italy or Ireland.

The research on obesity involves not only elucidation of the mechanism of the regulation of food intake in animals and etiology of various forms of experimental obesity, but also clinical work on obese children and adolescents at the Children's Hospital. Work on the role of pyridoxine in the prevention of calculi in rats is supplemented by clinical trials in Thailand.

An attempt is made to have all departmental students be conversant with the physiology and biology underlying the science of nutrition, with the advances of nutrition *per se* and with the public health aspects of nutrition including assessment of nutritional status of individuals and populations, nutrition education, nutrition action programs and the interaction of nutrition with other aspects of public health and with economic and social factors.

The content of the training of each student is a function of the particular career the student is preparing himself for. Obviously, if the student is going to be primarily an experimentalist, the biological sciences and techniques are emphasized. If he is going to be a survey specialist, statistical and social factors are emphasized. The over-all aim, however, is that each student become familiar with the whole picture of nutrition.

The Department conducts three types of international activity: research, technical assistance, and advice on an international scale. Over the years, members of the

Department have conducted research in almost every part of the world. At present the *research* emphasis is on Colombia, Thailand and Kyushu University in Fukuoka, Japan. Our *technical assistance* efforts have been directed at helping countries develop their own nutrition institutes and organizations. For example, members of the Department have been instrumental in such developments in Peru, Chile, Colombia, Guatemala, Ghana, the Ivory Coast and Indonesia. Finally, senior members of the Department are serving as *advisors* to various U.S. and international organizations dealing with problems of international nutrition. Such organizations include the U.S. Public Health Service, the Surgeon General of the Army, the World Health Organization and the Food and Agriculture Organization.



PHYSIOLOGY

DR. JAMES L. WHITTENBERGER
James Stevens Simmons
Professor of Public Health,
Professor of Physiology
and Head of the Department





PHYSIOLOGY

*Seated, left to right—Dr. Chamberlin, Dr. Murphy, Dr. Whittenberger, Dr. Radford, Dr. Amdur.
Standing—Dr. Mead, Dr. Forbes, Dr. Ferris.*

DEPARTMENT OF PHYSIOLOGY

James L. Whittenberger, S.B., M.D., A.M. (hon.), *James Stevens Simmons Professor of Public Health, Professor of Physiology and Head of the Department*

Ross A. McFarland, A.B., Ph.D., S.D. (hon.), *Professor of Environmental Health and Safety*

Jere Mead, S.B., M.D., *Associate Professor of Physiology*

Benjamin G. Ferris, Jr., A.B., M.D., *Associate Professor of Environmental Health and Safety*

Edward P. Radford, Jr., M.D., *Associate Professor of Physiology*

William H. Forbes, Dr. Phil., M.D., *Lecturer on Physiology*

Mary O. Amdur, S.B., Ph.D., *Assistant Professor of Physiology*

Harben J. Boutourline-Young, M.B., B.S., M.D., *Assistant Professor of Physiology*
(Absent 1962-63)

N. Robert Frank, A.B., M.D., *Assistant Professor of Physiology*

Roland C. Moore, Ph.D., *Associate in Industrial Psychology*

Richard G. Domey, S.B., Ed.D., *Associate in Environmental Health and Safety*

Willem S. Frederik, Dr. Phil., M.D., S.M. in Hyg., *Lecturer on Physiology*

Howard W. Stoudt, Jr., Ph.D., S.M. in Hyg., *Research Associate in Physical Anthropology*

John M. Tyler, A.B., M.D., *Research Associate in Physiology*

Joseph Milic-Emili, M.D., *Research Fellow in Physiology*

Frank E. Speizer, A.B., M.D., *Research Fellow in Physiology*

James M. Turner, Jr., S.B., M.D., *Research Fellow in Physiology*

Mary E. Beck, A.B., M.D., *Research Fellow in Physiology*

Leonard I. Kleinman, A.B., M.D., *Research Fellow in Physiology*

Jules R. Schwaber, A.B., M.D., *Research Fellow in Physiology*

John B. Little, A.B., M.D., *Research Fellow in Physiology*



AVIATION MEDICINE

Left to right—Dr. Tune, Mr. Crowley, Dr. Moore, Dr. McFarland, Dr. Stoudt, Mr. Loring.

THE Department of Physiology draws personnel from a wide range of disciplines to fulfill its needs and objectives in research and teaching. These include physicians, respiratory physiologists, psychologists, physical anthropologists, health and safety specialists, toxicologists, and specialists in radiobiology, occupational medicine and aerospace health and safety. Students come with similarly varied backgrounds, and the research activities of the Department reflect this broad range of interests.

A fundamental aim of the Department is to provide basic information on the relationship of man to his physical environment. An introduction to these concepts is presented in the semi-elective course Environmental Health 1c that is offered by the Department. These concepts are examined in detail in more specialized courses such as Environmental Physiology, Principles of Toxicology, and Radiation Biology. Specific research projects of members of the department offer the qualified student an opportunity to gain experience in, and to develop a capacity for, critical evaluation of research techniques and methods.

The research programs include topics such as techniques of measuring respiratory function, effects of low-level ionizing radiation, human factors in transportation safety, effects of inhaled irritants on man and animals, causation of chronic non-specific respiratory disease, estimation of level of body burdens of ionizing radiation in various populations, exercise and work physiology, and factors involved in fitting the machine and work environment to the capabilities of human performance. Increased laboratory and teaching space for these programs has been provided by the completion of the Kresge building to which the Department moved in August, 1962.

International interests of the Department include a cross-cultural study in Italy and the United States of America that is concerned with environmental factors and their effect on growth and development of school-age children. Another study involves attempts to determine the causation of chronic non-specific respiratory diseases by comparing results obtained by comparable methods in various countries.



PUBLIC HEALTH PRACTICE

DR. HUGH R. LEAVELL
Professor of Public Health Practice
and Head of the Department





PUBLIC HEALTH PRACTICE — ADMINISTRATION

Seated, left to right—Dr. Best, Dr. Hamlin, Dr. McKenzie Pollock. Standing—Dr. Phillips, Miss Erickson, Mrs. Pitts, Dr. Taubenhau, Mr. McCormick, Dr. Sternfeld.

DEPARTMENT OF PUBLIC HEALTH PRACTICE

Hugh R. Leavell, S.B., M.D., Dr.P. H., *Professor of Public Health Practice and Head of the Department*

Robert H. Hamlin, A.B., M.D., M.P.H., LL.B., *Roger Irving Lee Professor of Public Health and Director of the Interfaculty Program on Health and Medical Care*

Alfred L. Frechette, M.D., M.P.H., *Clinical Professor of Public Health Practice and Commissioner of Public Health, Commonwealth of Massachusetts*

Leonid S. Snegireff, M.D., Dr.P.H., *Associate Professor of Chronic Disease Control*

Gerald Caplan, B.Sc., M.B., Ch.B., D.P.M., M.D., *Associate Professor of Mental Health*

Benjamin D. Paul, A.B., Ph.D., *Associate Professor of Social Anthropology (Absent 1962-63)*

Sol Levine, Ph.D., *Associate Professor of Social Psychology*

Elizabeth P. Rice, A.B., S.M., *Associate Professor of Public Health Social Work*

James S. McKenzie Pollock, M.B., Ch.B., D.P.H., S.M. in Hyg., *Associate Clinical Professor of International Health*

Wallace H. Best, Ph.D., *Lecturer on Public Administration*

Edward Mason, A.B., M.D., *Assistant Professor of Mental Health*

Marjorie A. C. Young, Ed.M., Dr.P.H., *Assistant Professor of Health Education*

Louisa P. Howe, Ph.D., *Assistant Professor of Mental Health*

Sydney H. Crook, Ph.D., *Assistant Professor of Sociology*

Lenin A. Baler, Ph.D., S.M. in Hyg., *Assistant Professor of Mental Health*



COMMUNITY MENTAL HEALTH

Seated, left to right—Miss Owens, Dr. Mason, Dr. Howe. Standing—Dr. Hassol, Mr. McDonald, Dr. Baler.

Charlotte E. Owens, S.B., M.P.H., *Associate in Mental Health*
 Harry T. Phillips, M.B., Ch.B., D.P.H., M.D., *Lecturer on Public Health Practice*
 Thomas R. Dawber, A.B., M.D., M.P.H., *Lecturer on Chronic Disease and Gerontology*
 Leon J. Taubenhause, A.B., M.D., M.P.H., *Lecturer on Public Health Practice*
 Sidney S. Lee, S.B., M.D., Dr.P.H., *Lecturer on Public Health Practice and General
 Director, Beth Israel Hospital*
 Rhona V. Rapoport, B.Sc., Ph.D., *Lecturer on Mental Health*
 Barbara T. Ganem, A.B., M.D., M.P.H., *Lecturer on Public Health Practice*
 Bellenden R. Hutcheson, S.B., M.D., *Lecturer on Mental Health*
 Edward B. Kovar, A.B., A.M., *Lecturer on Public Health Practice*
 Donald C. Klein, A.B., Ph.D., *Lecturer in Social Psychology*
 Edward Wellin, Ph.D., S.M. in Hyg., *Visiting Lecturer on Social Anthropology*
 George James, M.D., M.P.H., *Visiting Lecturer on Public Health Practice*
 Franklyn B. Amos, M.D., M.P.H., *Instructor in Public Health Practice*
 Olive M. Lombard, B.Sc., S.M. in Hyg., *Instructor in Public Health Practice*
 Bessie S. Dana, A.B., M.S.S., *Instructor in Public Health Social Work*
 Augusta F. Law, A.B., M.D., M.P.H., *Instructor in Public Health Practice*
 Ann M. Thomson, S.B., M.P.H., *Instructor in Public Health Nursing*
 Mary D. Bain, A.B., M.D., *Instructor in Mental Health*
 Saul Cooper, A.M., *Instructor in Mental Health*
 John G. McCormick, S.M., *Instructor in Health Education*
 Elizabeth Kingsbury Caso, S.M., S.M. in Hyg., *Instructor in Nutrition (Chronic
 Disease)*
 George T. Nilson, S.B., Ed.M., M.P.H., *Instructor in Health Education*
 Frances H. Pitts, S.M., M.P.H., *Instructor in Health Education*



GERONTOLOGY AND SOCIAL SCIENCE

Seated, left to right—Mrs. Caso, Dr. Snegireff, Miss Fitzpatrick. Standing—Dr. Croog, Mrs. Futrelle, Miss Gamricki, Mrs. Shapiro.

Donald Ottenstein, S.B., M.D., *Instructor in Mental Health*

Catherine M. Casey, A.B., M.S.W., S.M. in Hyg., *Instructor in Public Health Social Work*

Roy Penchansky, S.B., M.I.L.R., D.B.A., *Instructor in Medical Care Administration*

James E. Teele, Ph.D., *Research Associate in Sociology*

William A. Gamson, Ph.D., *Research Associate in Social Psychology*

Lilly C. Moberg, *Assistant in Public Health Nursing*

Raymond F. Wagner, S.M., *Assistant in Public Health Practice*

Edna L. Skelley, S.B., A.M., *Assistant in Public Health Nursing*

Charles M. Bryant, A.B., M.D., M.P.H., *Teaching Fellow in Public Health Practice*

THE Department of Public Health Practice provides a diversified base for teaching and research in a wide variety of fields relevant to public health practice, including medical care administration and economics; mental health; cancer control, chronic disease, and gerontology; health education; social and behavioral sciences; and general administration.

The department stresses teamwork as a key theme in public health practice, which must extend to relationships among diverse public and private agencies, among many professions, and among all levels of government from local to international. The public health practitioner must often learn to rely more on constructive influence than upon official control of events, and he must act as a change agent in directions which will permit the earliest possible prevention and limitation of diseases, disorders, or disabilities in the community.

The Interfaculty Committee on Health and Medical Care has illustrated the teamwork theme through the collaboration of faculty from the Medical School and Graduate Schools of Business Administration and Public Administration with the Medical Care Unit staff in developing a new teaching program on medical care ad-

ministration and economics during the past two years. Case studies on the British National Health Service and the Physicians' Strike in Saskatchewan have been completed this year, and case studies on drug costs and utilization in two settings and on Federal legislative proposals for health care of the aged are in process. The broad interdisciplinary approach of this teaching program is reflected in its student population and in the content of extensive special bibliographies, reading materials, and field training resources which it has developed. Active consideration is being given to adding a Research Seminar in Medical Economics to the existing Seminar on Economics and Administration of Medical Care. The feasibility of developing a training and research program in Libya is also being explored, with the purpose of measuring the impact of investments in health and education on the economy of a developing country.

The Social Science Unit is near the completion of three research projects. These concern patterns of relationships and barriers to more effective interaction among health and welfare agencies, including hospitals; factors determining outcomes on fluoridation referenda in relation to outcomes on other community issues; and the social science aspects of the etiology of rheumatoid arthritis, hypertension, and schizophrenia. A study of internal organization problems of official health agencies in six Massachusetts municipalities has progressed substantially since its initiation last year. A study of cultural change and changing health-care practices in rural Guatemala remains active as an interest of the Social Science Unit.

The Cancer Control and Health Education Units, in cooperation with the Massachusetts State Department of Education, are beginning a long-range study of methods of using scheduled courses in schools to influence children and young adults to avoid smoking cigarettes. The Cancer Control Unit is also continuing cooperative studies of cancer chemotherapy in adult patients and of radiation effects on humans.

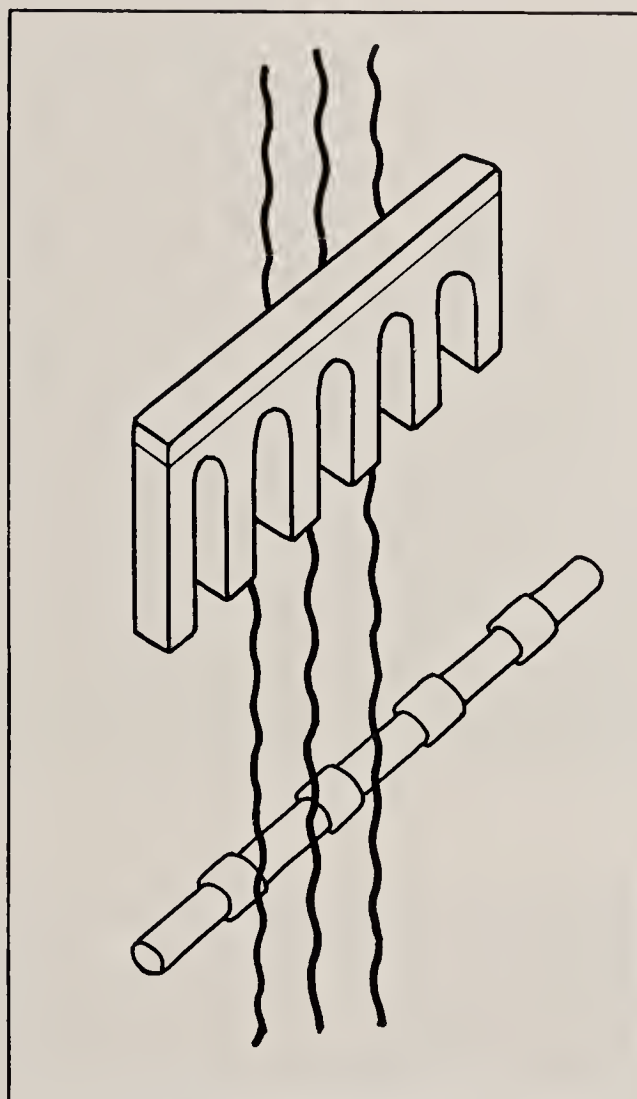
The Mental Health Unit has expanded its teaching of mental health consultation and community organization, while continuing to serve the needs of both the community mental health specialists and the general students in the Department. Studies on the process of mental health consultation, and on the evaluation of its effectiveness with public health nurses, are in their final stages. Research on family crises continues, focusing on coping behavior during transitional and accidental crises and the subsequent mental health of the family members. New studies are being planned on the mental health of persons recently widowed. A close consultative tie is being maintained with the Peace Corps on the training and mental health aspects of its work. A new program for the production and use of films for teaching community mental health has also begun and is undergoing significant expansion.

In the field of general administration in public health, substantial progress has been made on a comparative case study of local health unit consolidation in four states, and on another long-range case study of the changes resulting from the establishment of the Health and Welfare Agency in California. Advanced forms of systems analysis, automated data processing for management purposes, and performance budgeting have been given more emphasis in the teaching program.

The Department Chairman completed a pilot study for the Association of Schools of Public Health in the evaluation of international graduate education in public health and in the methodology of evaluation of international technical cooperation. He was elected President of the Massachusetts Public Health Association, reelected as President of the Association of Schools of Public Health, appointed as Chairman of the Advisory Committee on the Community Studies Project of the National Commission on Community Health Services, and served as a consultant on public health programs to the Agency for International Development and the Government of India.



SANITARY ENGINEERING



DR. J. CARRELL MORRIS
Gordon McKay Professor of
Sanitary Chemistry
and Acting Head of the Department





Left to right—Dr. Fair, Dr. Morris, Dr. Thomas, Dr. Stumm.

DEPARTMENT OF SANITARY ENGINEERING

J. Carrell Morris, S.B., Ph.D., A.M. (hon.), *Gordon McKay Professor of Sanitary Chemistry and Acting Head of the Department*

Gordon M. Fair, S.B., S.M. (hon.), Dr. (hon.), Dr. (hon.), *Abbott and James Lawrence Professor of Engineering, Gordon McKay Professor of Sanitary Engineering*

Werner Stumm, Dr.Phil., A.M. (hon.), *Associate Professor of Applied Chemistry*

Charles Walcott, Ph.D., *Assistant Professor of Applied Biology*

Robert P. Burden, S.D., *Research Fellow in Sanitary Engineering*

ALTHOUGH Sanitary Engineering in its broadest sense is concerned with all aspects of environmental control for the preservation or improvement of man's health or well-being, it arose out of a regard for provision of pure water supplies and has continued to have a primary interest in the use of water by man. This general emphasis is true also of the program in Sanitary Engineering at Harvard.

Interests range from the sources of water to its disposal after use and its purification for reuse. Particular concerns include development of methods for realization of the optimum utilization of water resources; mathematical analysis of hydrological data on quantity and quality of water supplies; the chemical properties and behavior of impurities in water; chemical-biological relations in natural waters; methods for the treatment and purification of water supplies; and optimal design of household sewage disposal systems.

As can be seen, the over-all objective is application of modern and rigorous scientific knowledge to problems in the field of water resources. Successful endeavor along these lines requires a variety of scientific talents. Accordingly the departmental staff is composed of engineers, chemists and biologists, each contributing his special knowledge to the solution of problems to which all these fields are pertinent.

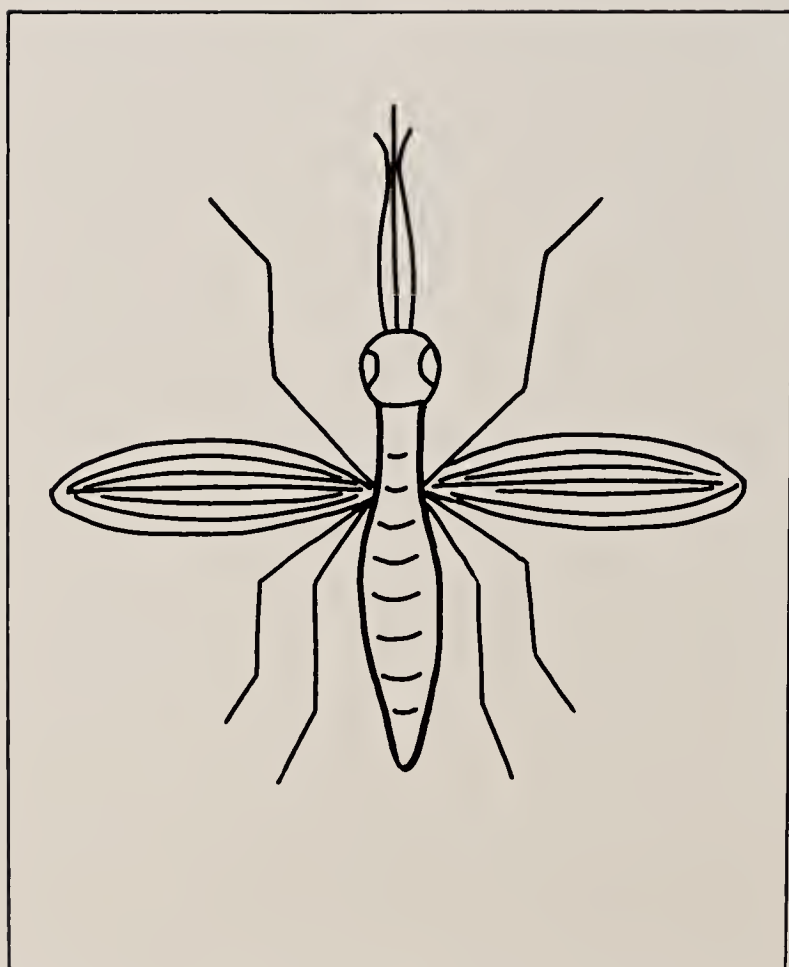
The educational effort is oriented toward the preparation of students for careers in research and teaching; however, training for professional engineering and work with government agencies is also important. It is felt that those in the latter types of careers as well as those in research and teaching should have sound scientific training if they are to understand and deal with future problems. Mathematicians, physicists, chemists, biologists and geologists as well as engineers are encouraged to undertake studies at both the pre-doctoral and post-doctoral levels.

Particular mention should be made of the department's new emphasis in Applied Biology. An attempt is being made to provide a broad view of biological phenomena by courses and seminars dealing with such topics as cellular energetics and communication, ecological relations, population dynamics and the effects of environmental factors on the life of biological communities.





DR. THOMAS H. WELLER
Richard Pearson Strong Professor
of Tropical Public Health
and Head of the Department



TROPICAL PUBLIC HEALTH



Left to right—Dr. Pan, Dr. Frothingham, Dr. Michelson, Dr. Spielman, Dr. Russell, Dr. Neva, Dr. Weller, Dr. Chernin.

DEPARTMENT OF TROPICAL PUBLIC HEALTH

Thomas H. Weller, A.B., S.M., M.D., LL.D., *Richard Pearson Strong Professor of Tropical Public Health and Head of the Department*

Paul F. Russell, A.B., M.D., M.P.H., S.D. (hon.), *Visiting Professor of Tropical Public Health*

Franklin A. Neva, S.B., M.D., *Associate Professor of Tropical Public Health*

Eli Chernin, S.B., A.M., S.D., *Associate Professor of Tropical Public Health*

Thomas E. Frothingham, M.D., *Assistant Professor of Tropical Public Health*

Chia-Tung Pan, B.Sc., M.D., M.P.H., *Associate in Tropical Public Health*

Edward H. Michelson, S.M., Ph.D., *Associate in Tropical Public Health*

Fred L. Soper, A.B., S.M., Dr.P.H., S.D. (hon.), *Visiting Lecturer on Tropical Public Health*

George M. Saunders, A.B., M.D., *Visiting Lecturer on Tropical Public Health*

Samuel W. Simmons, S.B., Ph.D., *Visiting Lecturer on Tropical Public Health*

G. Robert Coatney, Ph.D., S.D. (hon.), *Visiting Lecturer on Tropical Public Health*

Harry Most, S.B., M.D., D.T.M.&H., D.M.S., *Visiting Lecturer on Tropical Public Health*

Donald B. McMullen, S.D., *Visiting Lecturer on Tropical Public Health*

Richard H. Daggy, S.M., Ph.D., Dr.P.H., *Visiting Lecturer on Tropical Public Health*

Andrew Spielman, S.B., S.D., *Instructor in Tropical Public Health*

Charles A. Alford, Jr., S.B., M.D., *Research Fellow in Tropical Public Health*

THE permanent staff of the Department comprises seven medical scientists whose fields of competency include internal medicine, pediatrics, parasitology, virology, entomology, and malacology. In addition, distinguished medical administrators, teachers, and research workers contribute to the teaching activities on a part-time basis. There are also a small number of advanced students and research fellows who conduct their own laboratory investigations and participate in the activities of the Department.

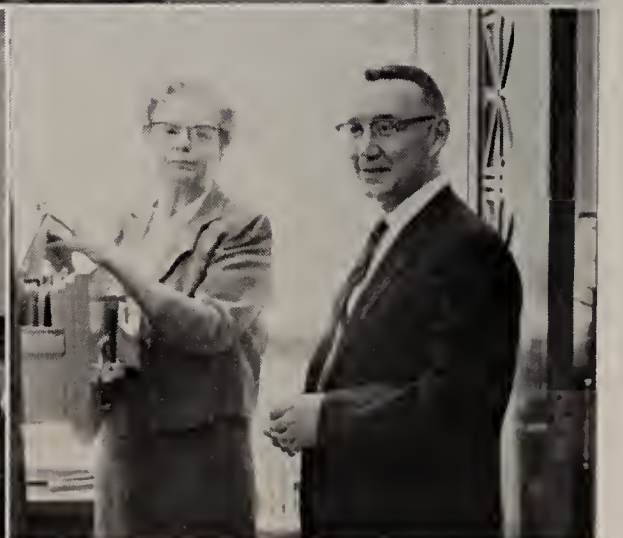
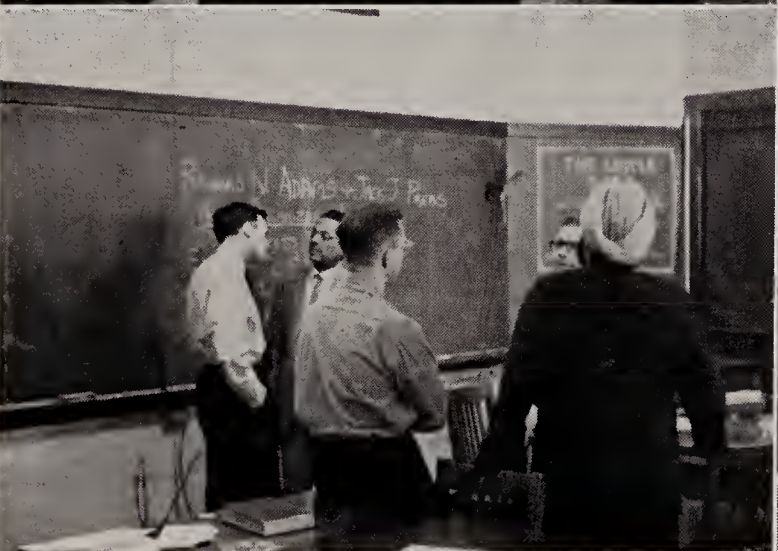
The Department's primary interest is in communicable diseases, and more particularly the elucidation of fundamental biological facts concerning these diseases. More than half of the world's population resides in tropical areas where communicable diseases are a prime restraint on the improvement of man's condition of life. Control of such diseases must depend on sound biological knowledge. In these developing areas of the world it is axiomatic to give priority of funds and personnel, at least initially, to preventive programs designed to render the environment acceptable and to improve economic productivity. Only when this is achieved may properly comprehensive medical care be developed. Accordingly, research in this Department reflects the continuing need for more complete knowledge on which such control programs may be based. The better understanding of some diseases, for example, requires the ability to cultivate the etiological agent in the laboratory through all stages in its life cycle. For other diseases, facts about the habits or natural enemies of the invertebrate vectors may be the research goal. The techniques of tissue culture form one principal research tool to be found in the Department, while laboratory colonies of various invertebrate disease vectors such as snails and mosquitoes are used in other areas of research. Thus, the available tools are varied and representative of the many disciplines called upon in the study of agents possessing complex and environmentally determined life cycles.

Teaching is provided for students whose backgrounds and future plans vary widely. The subject matter of parasitology and virology complements that offered in Microbiology and is intended to furnish basic knowledge essential to all, whether careers in research, field control, or public health administration are anticipated. Formal courses are offered degree candidates in the School of Public Health and the Medical School and are also attended by interested physicians from the Harvard affiliated hospitals. Substantial time and effort are also expended on more personalized instruction of students desiring to pursue extracurricular study and laboratory work.

The Department maintains close liaison with a number of institutions and individuals located in tropical areas, including the Caribbean Islands, South America, and Africa. These relationships provide opportunities for staff and students to obtain a variety of research or training experiences in the tropics.

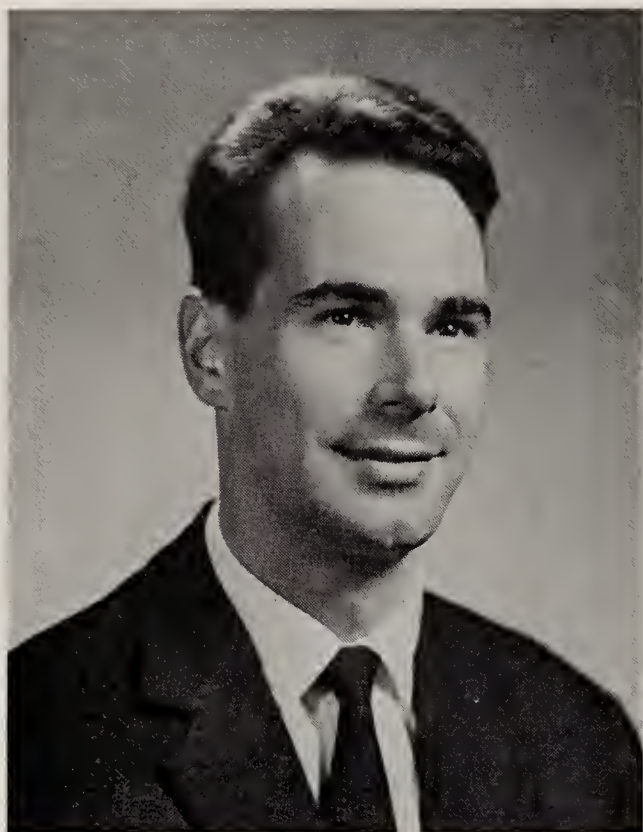






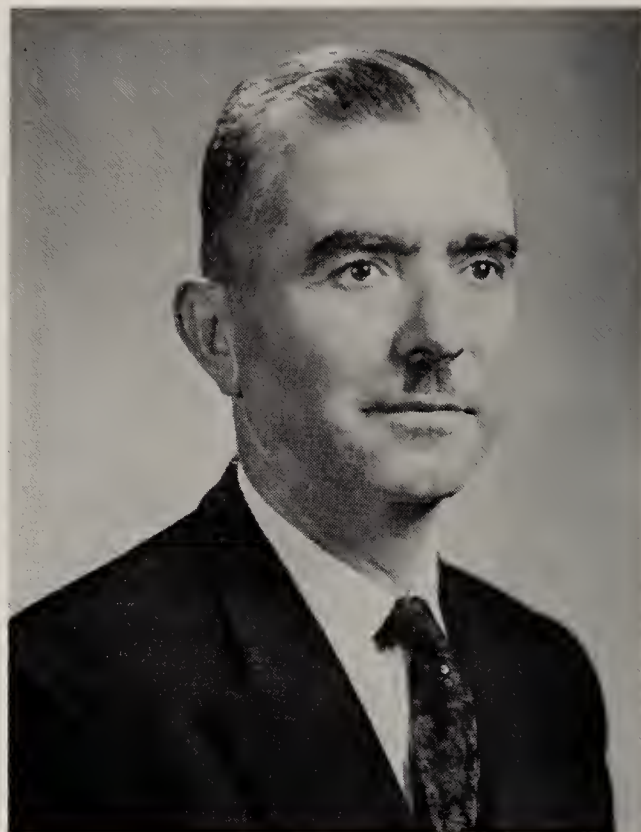


CLASS OF 1963



THEODOR ABELIN

Switzerland—M.D., Univ. of Berne, 1960. Physician. Single. Field of concentration: Epidemiology. Last position: Assistant, Dept. of Hygiene and Work Physiology, Swiss Federal Institute of Technology, Zurich. Next position: Dept. of Epidemiology, H.S.P.H. Permanent address: Beaulieustrasse 74, Berne, Switzerland.



KAMAL ABOU-DAOUD

Lebanon—M.D., American Univ. of Beirut, 1937; D.T.M. & H., London School of Hygiene and Tropical Medicine, 1962. Internal medicine. Wife: Fadwa; Daughter: Samia. Field of concentration: Epidemiology. Last position: Instructor, American Univ. of Beirut. Next position: Asst. Prof., American Univ. of Beirut, Lebanon. Permanent address: American Univ. of Beirut.

MOHAMMAD AFZAL

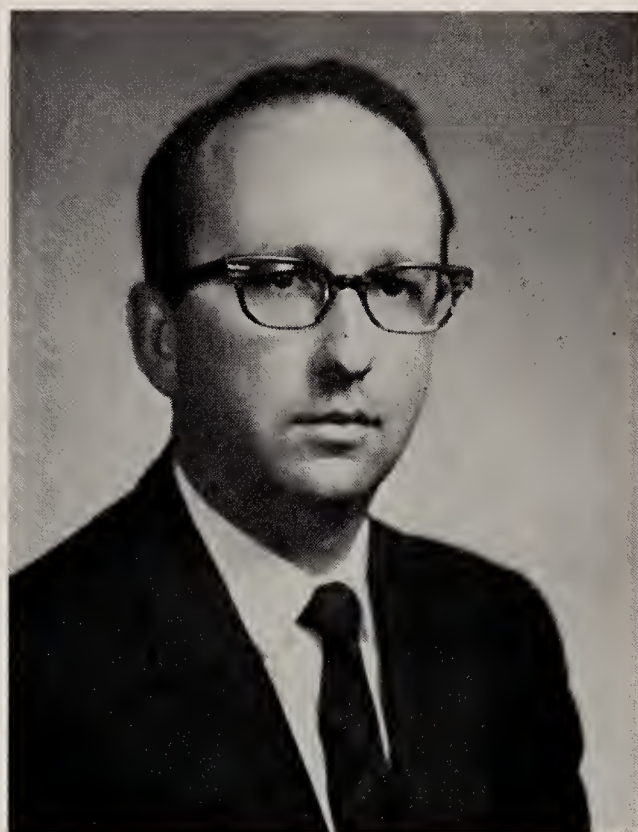
Pakistan—B.Sc., Panjab Univ., 1957; M.A., Panjab Univ., 1959. Statistician. Single. Field of concentration: Biostatistics and Demography. Last position: Statistician (Family Planning), Training-cum-Research Institute, Lady Willingdon Hospital, Lahore, W. Pakistan. Next position: Same. Permanent address: c/o Mohammad Azim, Postmaster, West Regional Laboratories, Lahore, W. Pakistan.





CELIA G. BANTEGUI

Philippines—B.S., Univ. of Chicago, 1948; B.S.Ch.E., National Univ. Philippines, 1953; M.A., Univ. of Philippines, 1958. Statistician and Chemical Engineer. Husband: Bernardino; Sons: Bernardino, Jr., Rey, Jake, Jaime, Eduardo. Field of concentration: Health Physics. Last position: Scientist, Phil. Atomic Energy Commission and Asst. Prof., Univ. of the East, Phil. Next position: Same. Permanent address: 83 Lambay, Sta. Mesa Hts., Quezon City, Phil.



HARRY BARRETT

U.S.A.—B.S., City Coll. of New York, 1956. Industrial Hygiene. Wife: Dorothy; Son: Dale; Daughter: Kathleen. Field of concentration: Health Physics (Industrial Hygiene). Last position: Insurance Co. of N. America. Next position: Unknown. Permanent address: Unknown.



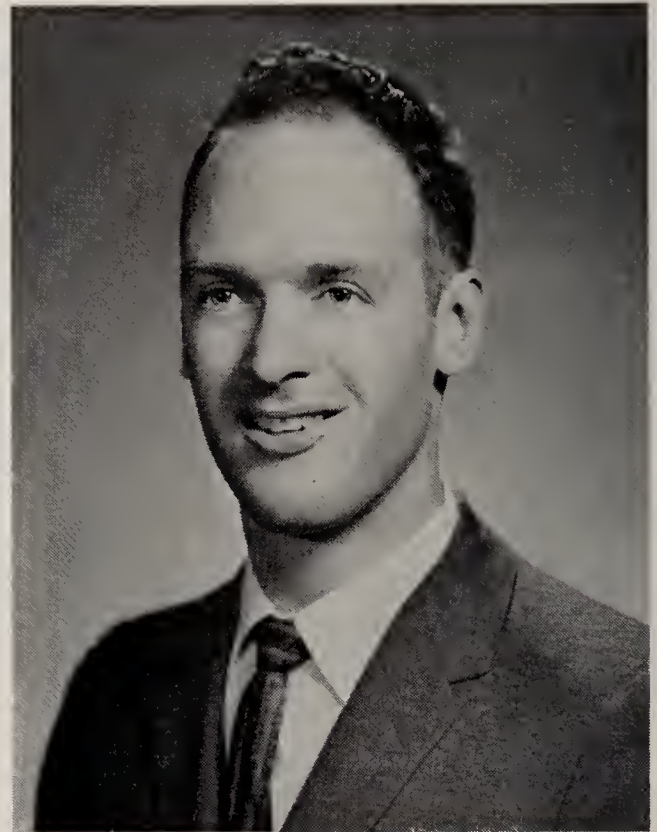
R. N. BASU

India—M.B.S.S., Calcutta, 1952; D.P.H., Calcutta, 1954. Public Health Physician. Wife: Santa; Daughters: Jaya, Mithu, Munni. Field of concentration: Demography and Human Ecology. Last position: Principal Officer, Rural Field Study of Population Control, Singur (Institute of Hygiene and Public Health, Calcutta). Next position: Same. Permanent address: Singur Health Centre, P.O. Singur, Dt. Hooghly, W. Bengal, India.

ELDON EARL BELL

Captain, U.S.A.F.

U.S.A.—Assoc of Science, Everett Junior Coll., 1954; B.S. in Math., Univ. of Washington, 1956; M.D., Univ. of Washington, 1960. Flight Medical Officer. Wife: Georgianna; Son: Eldon; Daughter: Jeanne. Field of concentration: Aerospace Medicine (Environmental Health). Last position: Chief of Preventive, Aviation and Occupational Medicine Services, James Connally Air Force Base, Texas. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: Route #4, Snohomish, Washington.



WARREN L. BERGGREN

U.S.A.—B.S. Med. and M.D., Univ. of Nebraska, 1955. Physician (Medical Missionary). Wife: Gretchen; Daughter: Ruth. Field of concentration: Tropical Public Health. Last position: Missionary Doctor, Director of Medical Services and Hospital Territory of Libenge, Republic of the Congo. Next position: Missionary Doctor for Evangelical Free Church of America, with station in Republic of Congo. Permanent address: Box 131, Route 2, Aurora, Neb.

LOWELL ELIEZER BELLIN

U.S.A.—B.S., Yale Univ., 1948; M.D., State Univ. of New York, Coll. of Medicine at New York City, 1951. Public Health Physician. Wife: Talah Tzviah; Son: Eran; Daughter: Eva. Field of concentration: Public Health Practice. Last position: Commissioner of Health, Springfield, Mass. Next position: Same. Permanent address: 74 Forest Glen Rd., Longmeadow, Mass.





JOSEPH DAVID BRAIN

U.S.A.—B.A., Taylor Univ., 1961; S.M., Harvard Univ., 1962. Radiation Biology. Wife: Judy. Field of concentration: Radiological Hygiene. Last position: Student. Next position: College teacher. Permanent address: 9 Bertrand Drive, Wayne, N. J.

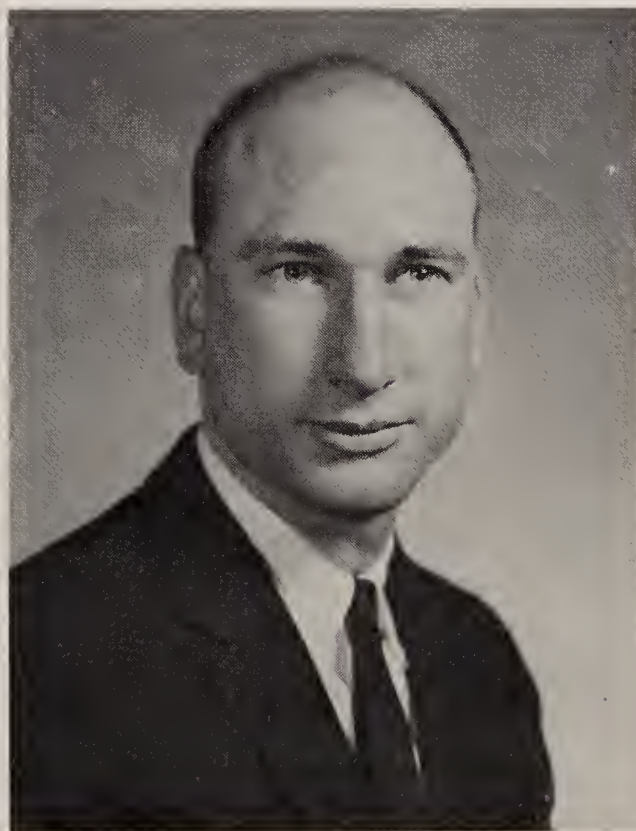
BEVERLY ANNE BULLEN

U.S.A.—B.S., Univ. of Wisconsin, 1947; M.S., Wellesley Coll., 1950; S.M. Hyg., Harvard Univ., 1960. Nutrition. Single. Field of concentration: Nutrition. Last position: Instructor, Wellesley College. Next position: Indefinite. Permanent address: 1105 E. Dallas Rd., Chattanooga, Tenn.



CHARLES RALPH BUNCHER

U.S.A. S.B., Mass. Inst. of Technology, 1960. Statistician. Single. Field of concentration: Biostatistics. Last position: Naval Officer, San Francisco Naval Shipyard. Next position: Student, H.S.P.H. Permanent address: 44 Whittingham Terrace, Millburn, N. J.





CYNTHIA LEVY CARVER

U.S.A.—B.A., Hunter College of the City Univ. of N.Y., 1962. Nutrition. Husband: Jeremy Paul. Field of concentration: Nutrition. Last position: Student. Next position: Same.



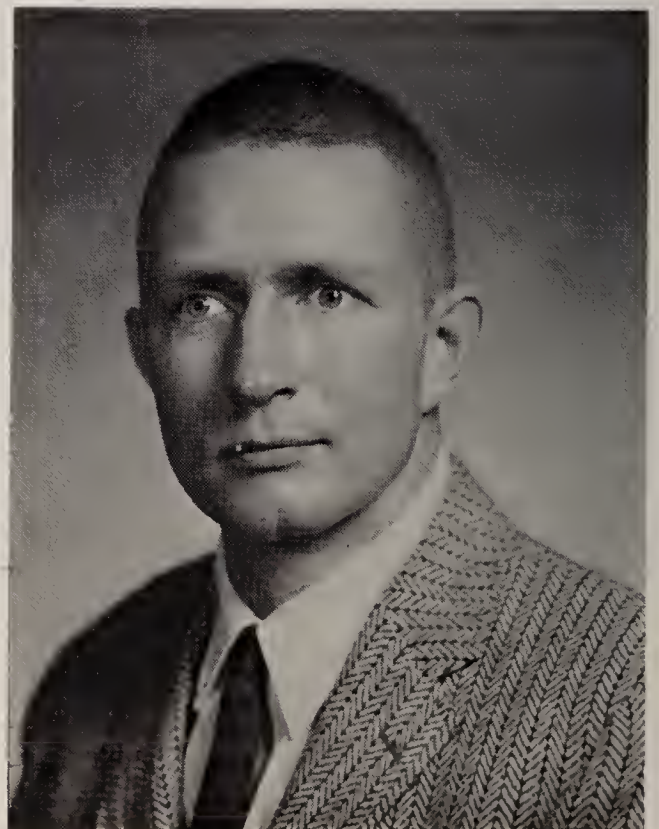
BERNARD D. CHALLENGOR

U.S.A.—A.B., Hunter College of the City Univ. of New York, 1957; M.D., State Univ. of New York, Downstate Medical Center, 1961. Physician. Single. Field of concentration: Tropical Public Health. Last position: Resident in Public Health, New York City Health Dept. Next position: Peace Corps Physician, East Pakistan. Permanent address: 1288 Sterling Place, Brooklyn 13, N. Y.

CALVIN C. CHAPMAN

Captain, U.S.A.F.

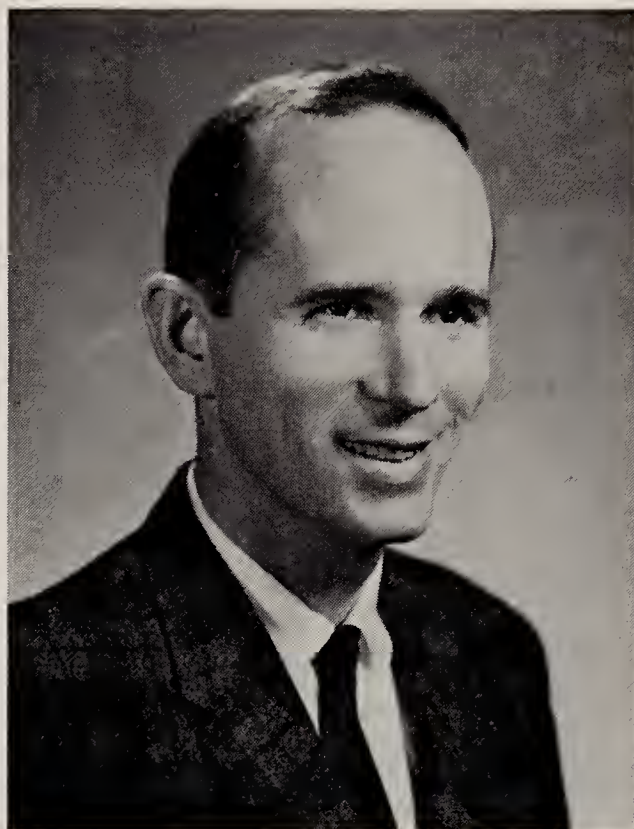
U.S.A.—B.S., Yale Univ., 1948; M.D., Univ. of Rochester, 1959. Aerospace Medicine. Wife: Imogene; Sons: Calvin, Samuel, Matthew; Daughter: Barbara. Field of concentration: Aviation Medicine (Environmental Health). Last position: Faculty Member, School of Aerospace Medicine, Brooks Air Force Base, Texas. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: 4943 Lakewood Drive, San Antonio 20, Texas.





JULIA J. CHEN

Republic of China—M.D., National Taiwan Univ., 1961. Physician. Single. Field of concentration: Nutrition. Last position: Rotating Intern, Taiwan University Hospital. Next position: Unknown. Permanent address: 20E. U-Shin Villa, Roosevelt Road, Section 4, Taipei, Taiwan, Republic of China.



KENNETH H. COOPER
Captain, U.S.A.F.

U.S.A.—B.S., Univ. of Oklahoma, 1953; M.D., Univ. of Oklahoma, 1956; M.P.H., Harvard Univ., 1962. Flight surgeon. Wife: Mildred. Field of concentration: Physiology. Last position: Instructor, School of Aerospace Medicine, Brooks Air Force Base, Texas. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: 3620 N. Roff, Oklahoma City, Okla.

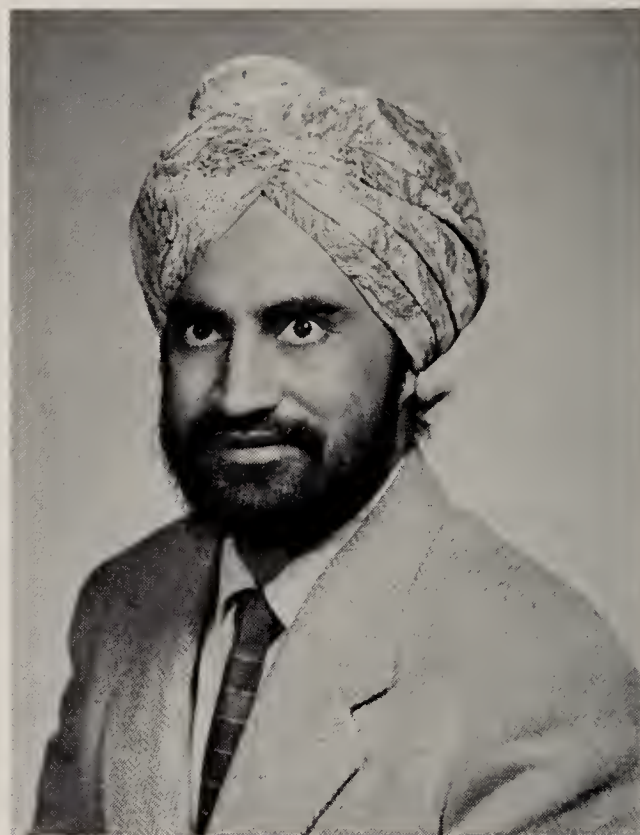


LANFORD HAROLD DeGENERES
Lt. Col., U. S. Army

U.S.A.—B.S., Centenary Coll. of Louisiana, 1942; M.D., Tulane Univ., 1945. Psychiatrist. Widower; Daughter: Lan. Field of concentration: Community Mental Health (Public Health Practice). Last position: Chief, Mental Hygiene Consultation Service, Ft. Campbell, Kentucky. Next position: U. S. Army, Okinawa. Permanent address: 610 Erie St., Shreveport, La.

HARWANT SINGH DHILLON

India—B.Sc., Government Coll., Ludhiana, Punjab, 1949; M.Sc., Delhi Univ., 1952. Anthropologist. Wife: Balbir; Daughters: Neelu, Sukeshi. Field of concentration: Public Health Practice. Last position: Chief of Research and Evaluation Division. Central Health Education Bureau, Directorate General of Health Services, Govt. of India, Delhi. Next position: Unknown. Permanent address: c/o Inder Kaur, Sultanpur Lodhi, Kapurthalla, Punjab, India.



FRANCOIS DRESSE

Belgium—M.D., Univ. of Liege, 1960. Physician. Single. Field of concentration: Public Health Practice and Biostatistics. Last position: Chief, Gwaka and Flandria Hospitals, Congo. Next position: Unknown. Permanent address: 194 Boulevard d'Avroy, Liege, Belgium.



STANLEY L. DRYDEN

U.S.A.—B.S., California State Polytechnic Coll., 1962. Air Conditioning and Refrigeration Engineering. Single. Field of concentration: Industrial Hygiene (Environmental Health). Last position: Student. Next position: Unknown. Permanent address: 1240 Dorothy Drive, Glendale 2, Calif.





BENJAMIN C. DUGGAR

U.S.A.—M.S., Univ. of Pittsburgh, 1956. Human Engineering. Wife: Nancy; Son: Benjamin. Field of concentration: Industrial Hygiene. Current position: Human Engineering, MITRE Corp., Bedford, Mass. Permanent address: 11 Parlee Road, Chelmsford, Mass.

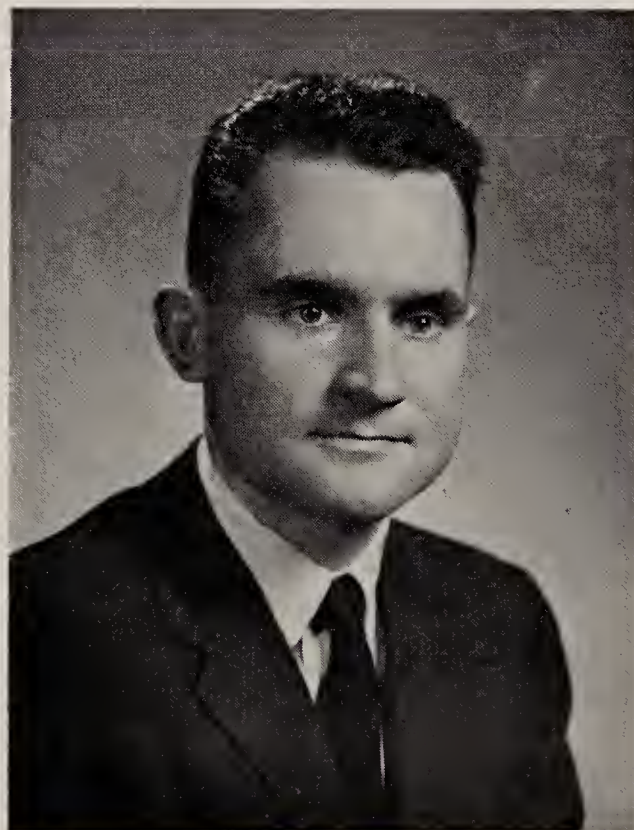
MANNING FEINLEIB

U.S.A.—A.B., Cornell Univ., 1956; M.D., State Univ. of N. Y. Downstate Medical Center, 1961. Physician. Wife: Marcia. Field of concentration: Epidemiology and Biostatistics. Last position: Intern, Mount Sinai Hospital, New York City. Next position: Dr. P.H. Candidate at H.S.P.H. Permanent address: 5 Colliston Road, Brookline 46, Mass.



MILAN FIALA

Stateless—M.D., Univ. of Geneva, 1959. Physician. Single. Field of concentration: Epidemiology. Last position: Research Fellow, Mass. General Hospital, Boston. Next position: Unknown. Permanent address: Vanderbilt Hall, Boston 15, Mass.





HAROLD H. FRY, JR.
Captain, U.S.A.F.

U.S.A.—M.D., Univ. of Tennessee, 1955. Flight surgeon. Wife: Netta; Sons: Harold H. III, William. Field of concentration: Aviation Medicine (Environmental Health). Last position: U.S.A.F., Torrejon Air Base, Spain. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: Camden, Tenn.



HARRY L. GIBBONS

U.S.A.—B.S., Utah State Univ., 1955; M.D., Univ. of Utah, 1958. Aviation Medicine. Wife: Marjorie; Sons: Mark, Scott. Field of concentration: Aviation Medicine (Environmental Health). Last position: Regional Flight Surgeon, Federal Aviation Agency, Ft. Worth, Texas. Next position: Same. Permanent address: 646 E. Center St., Logan, Utah.

GASTON GRAVEL

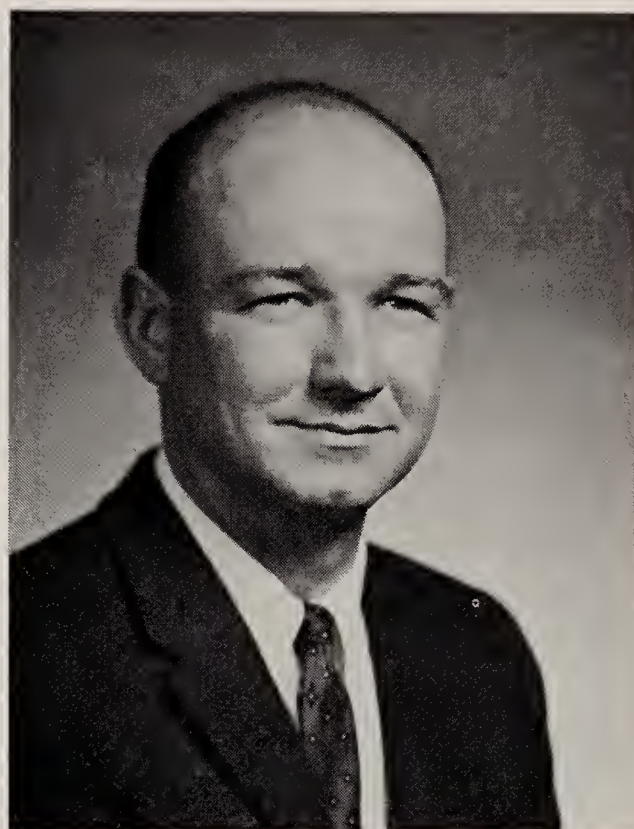
Canada—B.A., St. Joseph Univ., N.B., Canada, 1946; M.D., Montreal Univ., 1952; D.P.H., Montreal Univ., 1955. Public Health Physician. Wife: Jacqueline; Daughters: Lise, Ginette. Field of concentration: Public Health Practice and Maternal and Child Health. Last position: Medical Officer, Montreal. Next position: Same. Permanent address: 4865 Blvd. Rosemont, Montreal 36, Quebec, Canada.





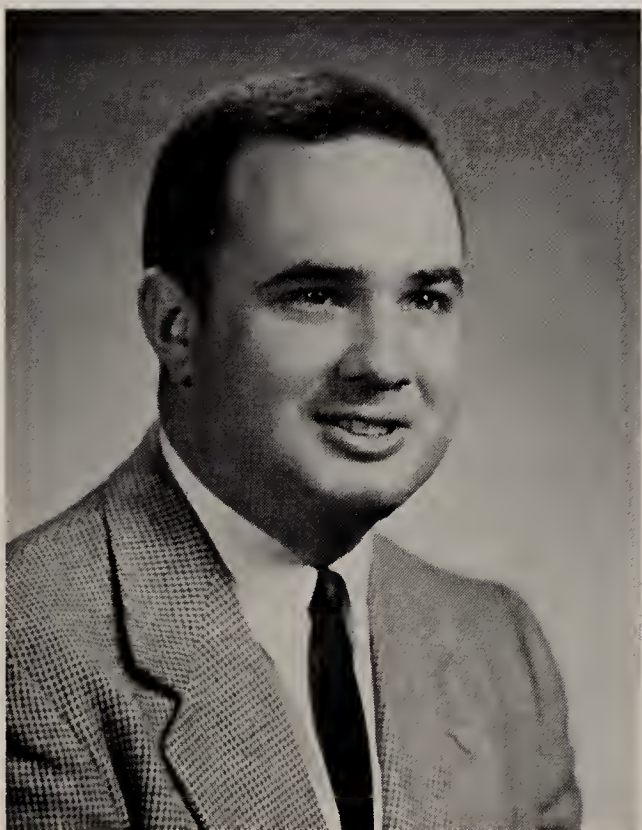
VIRGINIA ROSE HANNON

U.S.A.—M.A., Atlanta Univ., 1935; M.S.W., Simmons Coll. School of Social Work, 1942; S.M. in Hyg., Harvard Univ., 1962. Social Worker. Single. Field of concentration: Epidemiology. Last position: Asst. Prof., Atlanta Univ. School of Social Work. Next position: Unknown. Permanent address: 227 West Lake Drive, N. W., Atlanta 14, Ga.



ROBERT G. HANSEN
Dental Surgeon, U.S.P.H.S.

U.S.A.—D.D.S., Northwestern Univ., 1955. Dentist. Wife: Katherine; Sons: Kim, Marshall; Daughters: Jody, Karen. Field of concentration: Public Health Practice. Last position: Dental Public Health Trainee. Next position: Dental Public Health Residency, San Francisco, Calif. Permanent address: 1804 N. Cascade Ave., Colorado Springs, Colo.



WILLIAM HENRY HARK
Major, U. S. Army

U.S.A.—A.B., West Virginia Univ., 1954; B.S., West Virginia Univ., 1955; M.D., Medical Coll. of Virginia, 1957. Flight Surgeon. Wife: Claudette. Field of concentration: Aviation Medicine (Environmental Health). Last position: Office of the Surgeon General, Department of the Army. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: 500 42nd St., S.E., Charleston, W. Va.

GROVER C. HARRISON

U.S.A.—M.D., Univ. of Oklahoma, 1960. Occupational Health Physician. Wife: Jeanne; Sons: Steven, David, John; Daughter: Teresa. Field of concentration: Environmental Health (Industrial Hygiene). Last position: Occupational Health Physician, Tinker Air Force Base, Oklahoma. Next position: Same. Permanent address: 224 North Wilson, P.O. Box 615, Vinita, Okla.



NORMAN B. HASLER

U.S.A.—A.B., Indiana Univ., 1942; M.D., Indiana Univ., 1944. Occupational Medicine. Wife: Catherine; Son: John; Daughters: Elizabeth, Kathleen. Field of concentration: Industrial Health (Environmental Health). Current position: Division Medical Director, Liberty Mutual Insurance Co., Boston. Permanent address: 114 Eastern Ave., Arlington, Mass.



FERDINAND R. HASSLER
Senior Surgeon, U.S.P.H.S.

U.S.A.—B.S., Oklahoma State Univ., 1952; M.D., Oklahoma Univ., 1955. Psychiatrist. Wife: Bonnie; Daughter: Hilary. Field of concentration: Community Mental Health (Public Health Practice). Last position: Mental Health Study Center, Nat'l. Inst. of Mental Health, Bethesda 14, Md. Next position: Same. Permanent address: 2420 N.W. 43rd Circle, Oklahoma City, Okla.



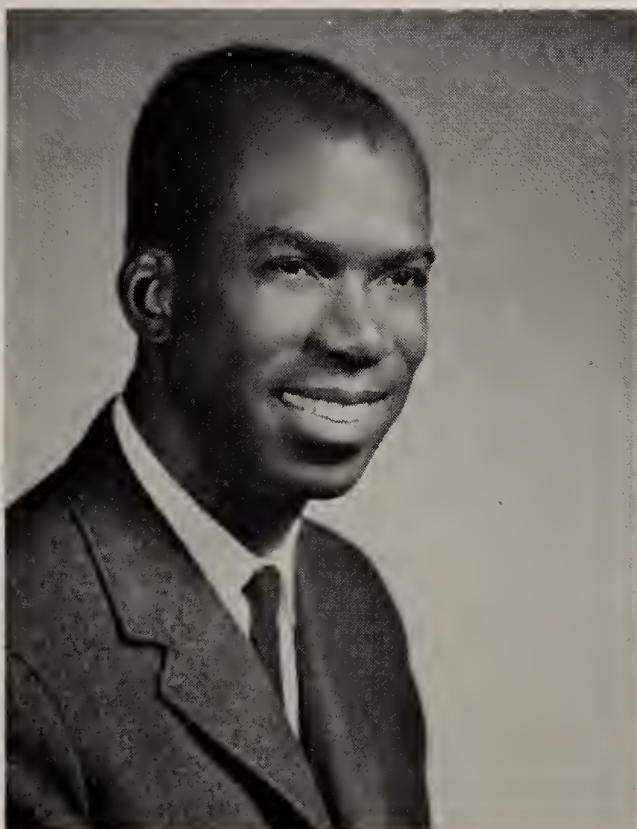


TAKUYA HAYASHIDA

Japan—B. Agr., Kyushu Univ., 1953; M. Agri., Kyushu Univ., 1955. Nutrition. Single. Field of concentration: Nutrition. Last position: Research Fellow in Nutrition, H.S.P.H. Next position: Not definite. Permanent address: 318, 4-Chome, Torikai-Machi, Fukuoka-Shi, Japan.

M. ALFRED HAYNES

U.S.A.—B.S., Columbia Univ., 1950; M.D., State Univ. of New York Downstate Med. Center, 1954. Physician. Wife: Hazel; Daughter: Theresa. Field of concentration: Epidemiology. Last position: Asst. Prof. of Preventive Medicine, Univ. of Vermont. Next position: Same. Permanent address: Univ. of Vermont, Burlington, Vt.



EARLE RODMAN HEINE
Captain, U.S.A.F.

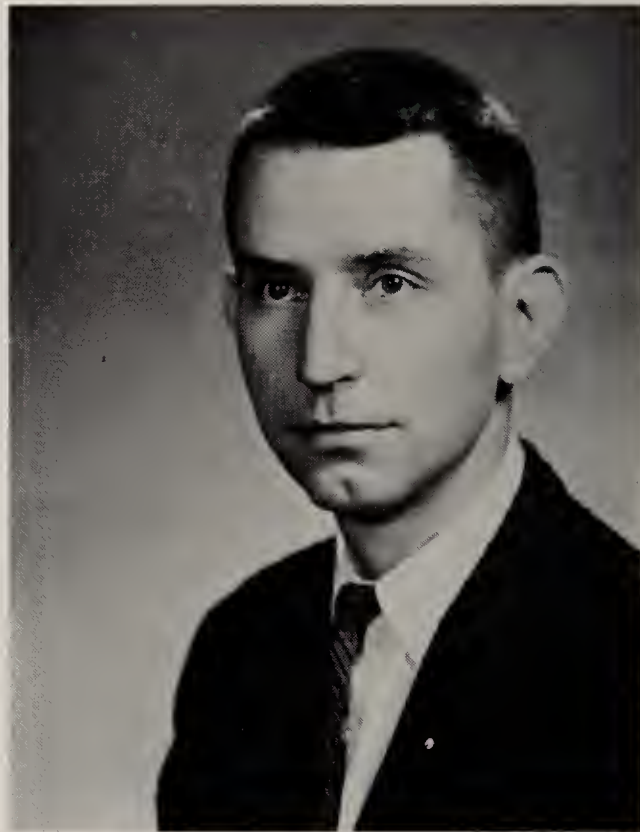
U.S.A.—B.A., Ohio Wesleyan Univ., 1951; M.D., Harvard Univ., 1955. Flight Surgeon. Wife: Deborah; Sons: Eric, Carl, Mark, Curt. Field of concentration: Environmental Health. Last position: Chief, Flight Surgeon's Office, Altus Air Force Base, Oklahoma. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: 109 E. Mound St., Circleville, Ohio.





MARION E. HIGHRITER

U.S.A.—B.A., Mount Holyoke Coll., 1950; M.N., Yale Univ., 1953; M.P.H., Harvard Univ., 1958. Public Health Nurse. Single. Field of concentration: Public Health Practice. Last position: Nursing Supervisor, San Juan Basin Health Unit, Durango, Colorado. Next position: Doctoral Candidate, H.S.P.H. Permanent address: 409 W. Academy St., Wilkes-Barre, Pa.



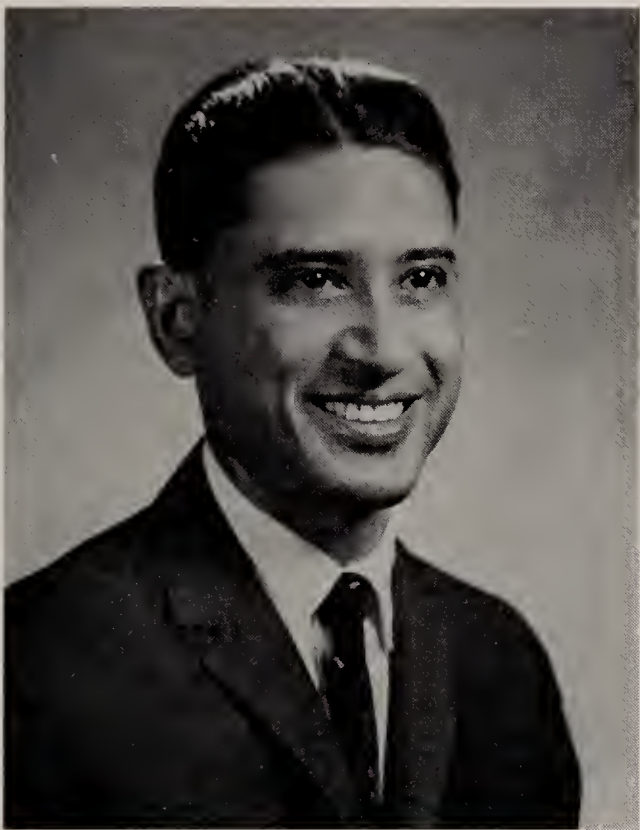
PAUL EMIL HOFFMAN
Major, U.S.A.F.

U.S.A.—A.B., Heidelberg Coll., 1950; M.D., St. Louis Univ., 1954. Flight Surgeon. Wife: Margaret. Field of concentration: Aerospace Medicine (Environmental Health). Last position: Flight Surgeon, 136th Tactical Fighter Squadron, Niagara Falls Air Force Base, N. Y. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: Box 608 Main St., North Collins, N. Y.

ALICE M. HOSACK

U.S.A.—B.S., Univ. of Buffalo, 1945; M.A., Univ. of Chicago, 1951; S.M. in Hyg., Harvard Univ., 1959. Public Health Nurse. Single. Field of concentration: Maternal and Child Health. Last position: Instructor, Univ. of Pittsburgh. Next position: Doctoral Candidate, H.S.P.H. Permanent address: 22 Evans Way, Boston 15, Mass.





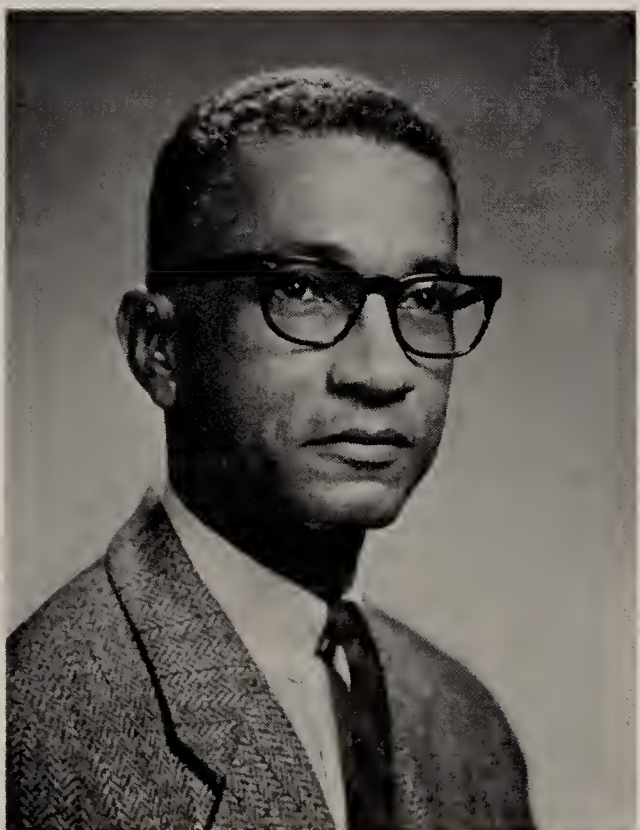
SYED SAFDAR HUSAIN

Pakistan—B.Sc., Panjab Univ., 1954; M.A., Panjab Univ., 1956. Statistician. Single. Field of concentration: Biostatistics and Demography. Last position: Survey Officer, Central Statistical Office, Government of Pakistan, Karachi. Next position: Biostatistician, Ministry of Health, Government of Pakistan. Permanent address: 22 Bareilly Road, Lahore Cantt., W. Pakistan.



GERTRUDE ISAACS

U.S.A.—S.B., Univ. of Minnesota, 1953; M.P.H., Univ. of Minnesota, 1956. Psychiatric and Public Health Nursing. Single. Field of concentration: Community Mental Health (Public Health Practice). Last position: Instructor, University of Miami. Next position: Unknown. Permanent address: Unknown.



THOMAS B. JONES

U.S.A.—A.B., Virginia Union Univ., 1941; M.S.W., Atlanta Univ., 1943; Ph.D., Ohio State Univ., 1947. Social Worker. Daughter: Yvonne. Field of concentration: Community Mental Health (Public Health Practice). Last position: School of Social Work, University of Puerto Rico. Next position: Same. Permanent address: School of Social Work, Univ. of Puerto Rico, Rio Piedras, P. R.

IRVING ISAR KESSLER

U.S.A.—A.B., New York Univ., 1952; M.A., Harvard Univ., 1955; M.D., Stanford Univ., 1960; M.H., Columbia Univ., 1961. Physician. Wife: Rita Jayne. Field of concentration: Epidemiology of Chronic Disease. Last position: Nursing Home Survey and Health Code Design, New York City. Next position: Doctoral Candidate, H.S.P.H. Permanent address: 425 South Huntington Ave., Jamaica Plain, Mass.

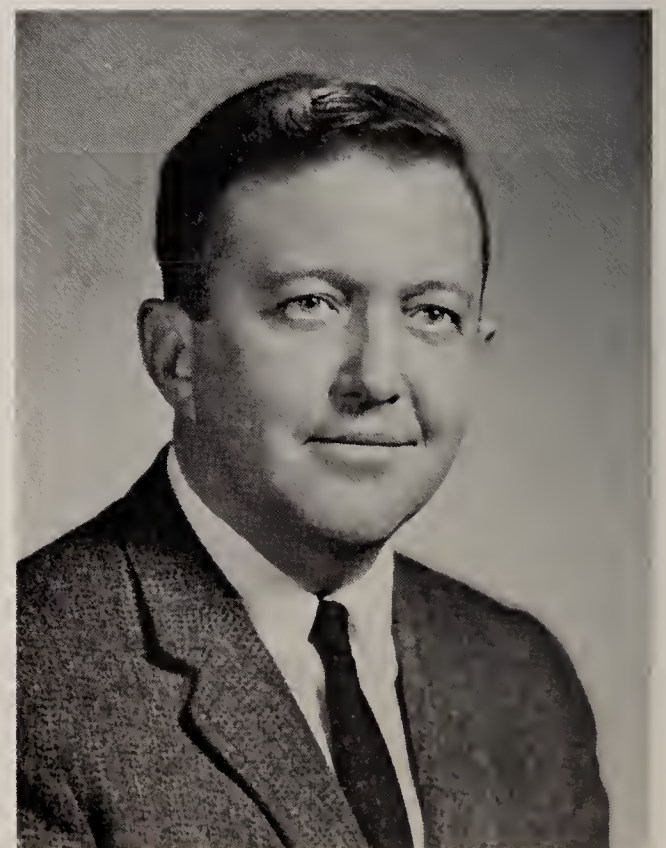
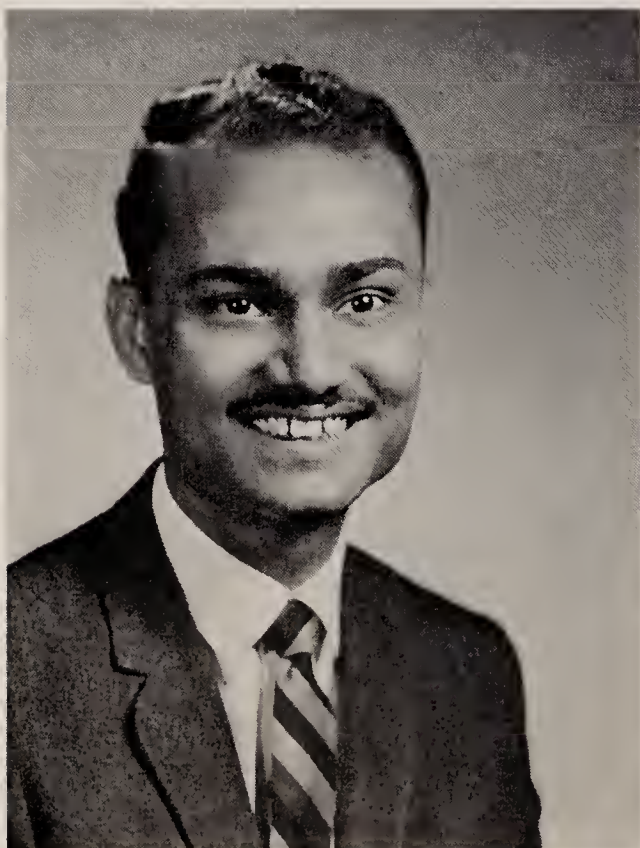


RALPH A. KILBY
Major, U. S. Army

U.S.A.—A.B., Williams Coll., 1946; M.D., Univ. of Buffalo, 1948; S.M., Univ. of Minnesota, 1956. Internal Medicine. Wife: Joy; Son: Ralph; Daughters: Kathryn, Cynthia. Field of concentration: Epidemiology. Last position. Fitzsimons General Hospital, Denver, Colorado. Next position: Residency in Public Health; location unknown. Permanent address: 1532 Tennessee St., Lawrence, Kansas.

MD. AMINUR ROHMAN KHAN

Pakistan—M.Sc., Univ., of Dacca, 1959. Statistician. Wife: Reba. Field of concentration: Demography and Biostatistics. Last position: Deputy Asst. Director of Agriculture (Statistics), Govt. of E. Pakistan, Dacca. Next position: Unknown. Permanent address: Seota, P.O. Manikganj., Dacca, E. Pakistan.





LESLIE M. KLEVAY

U.S.A.—B.S., Univ. of Wisconsin, 1956; M.D., Univ. of Wisconsin, 1960; S.M. Hyg., Harvard Univ., 1962. Physician (Nutritionist). Single. Field of concentration: Nutrition. Last position: Medical Intern, St. Louis City Hospital, Washington Univ. Next position: Doctoral Candidate, H.S.P.H. Permanent address: Unknown.

MAHMOOD H. KURAISHY

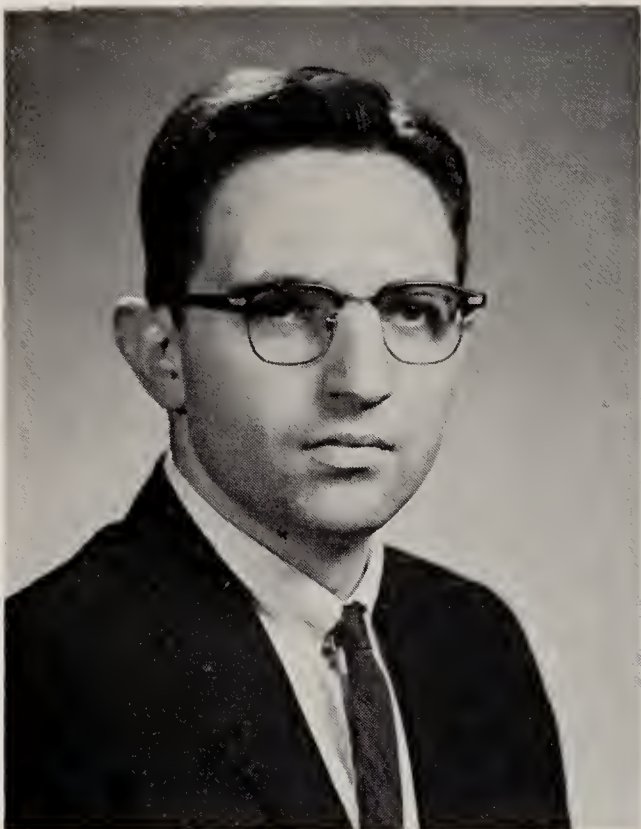
Pakistan—M.B.B.S., Punjab, 1953; D.P.H., Punjab, 1958. Public Health Physician. Wife: Salima; Son: Imran; Daughters: Seema, Humaira. Field of concentration: Public Health Practice. Last position: District Health Officer, Sargoda, W. Pakistan. Next position: Same. Permanent address: Maqbool Manzil, Bahawalpur, W. Pakistan.



SAMUEL LEVEY

U.S.A.—A.B., Bowdoin Coll., 1955; A.M., Columbia Univ., 1956; A.M., Univ. of Iowa, 1959; Ph.D., Univ. of Iowa, 1961. Hospital Administration. Single. Field of concentration: Public Health Practice. Last position: Asst. Prof., Hospital Administration, Univ. of Iowa. Next position: Unknown. Permanent address: 10 Freeman St., Portland, Maine.





E. JAMES LIEBERMAN

U.S.A.—A.B., Univ. of California, 1955; M.D., Univ. of California, 1958. Psychiatrist. Wife: Susan. Field of concentration: Community Mental Health (Public Health Practice). Last position: Fellow in Psychiatry, Putnam Children's Center, Boston. Next position: Professional Services Branch, Nat'l. Inst. of Mental Health, Bethesda, Md. Permanent address: 5952 Manchester Drive, Oakland 18, Calif.



HSIANG-JU LIN

U.S.A.—B.S., Columbia Univ., 1953; S.M.Hyg., Harvard Univ., 1959. Nutrition. Single. Field of concentration: Nutrition. Last position: Senior Research Asst., Nutrition Dept., H.S.P.H. Next position: Cell Chemistry Laboratory, Columbia University. Permanent address: New York City.

DELVIN E. LITTELL
Captain, U. S. Army

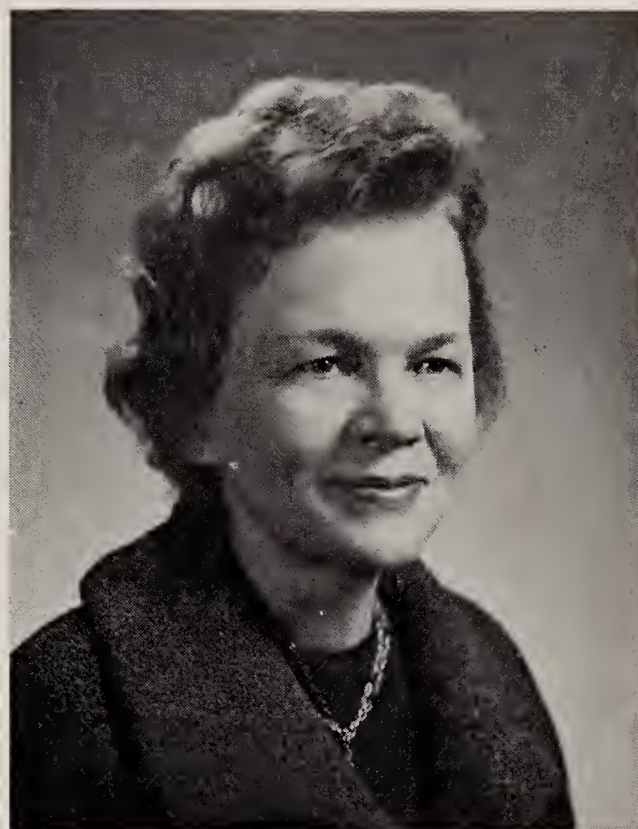
U.S.A.—B.A., Southern Missionary Coll., 1955; M.D., Loma Linda Univ., 1959. Flight Surgeon. Wife: Lynn; Sons: Joel, Charles; Daughter: Pamela. Field of concentration: Aviation Medicine (Environmental Health). Last position: Flight Surgeon, Ft. Devens, Mass. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: Route #4, Lebanon, Tenn.





PRABHA MALHOTRA

India—M.B.B.S., Calcutta Univ., 1946; D.M.C.W., Calcutta Univ., 1954. Physician. Husband: Major M. C. Malhotra; Son: Arjun; Daughter: Rena. Field of concentration: Unspecified. Last position: Reader, Dept. of Preventive and Social Medicine, Maulana Azad Medical College, New Delhi, India. Next position: Same. Permanent address: Dept. of Preventive and Social Medicine, Maulana Azad Med. Coll., New Delhi, India.



A. HELEN MARTIKAINEN

U.S.A.—A.B., Bates Coll., 1939; M.P.H., Yale Univ., 1941; Sc.D. (Honorary), Bates Coll., 1957. Health Education Specialist. Single. Field of concentration: Public Health Practice. Last position: Chief, Health Education, WHO, Geneva, Switzerland. Next position: Same. Permanent address: Europe: 47 Bis Florissant, Geneva; U.S.A.: 26 Morningside Drive, Laconia, N. H.



RAMIRO MARTINEZ-SILVA

Spain—M.D., Santiago, Spain, 1955; M.D., Hamburg, 1957. Microbiologist. Wife: Barbara; Son: Ramiro; Daughters: Minje, Aline, Chelo. Field of concentration: Microbiology. Last position: Consultant Prof. of Microbiology, School of Public Health, Bogota, Colombia. Next position: Unknown. Permanent address: c/o Fritz Ulith, Vor Dem Steintor 108, Bremen, Germany.

JAMES O. MASON
Surgeon, U.S.P.H.S.

U.S.A.—B.A., Univ. of Utah, 1955; M.D., Univ. of Utah, 1958. Physician (Epidemiology) Wife: Marie; Sons: James, Bruce, Ralph; Daughter: Susan. Field of concentration: Tropical Public Health. Last position: Asst. Resident (Medicine), Peter Bent Brigham Hospital. Next position: Doctoral Candidate, Harvard School of Public Health. Permanent address: 9820 Poppy Lane, Sandy, Utah.



STEVEN LAVELLE MOORE

U.S.A.—B.S., Millsaps Coll., 1953; M.D., Univ. of Mississippi, 1957. Public Health Physician. Wife: Irene; Sons: Mark, Arthur. Field of concentration: Public Health Practice. Last position: Director, George-Greene-Stone Counties Health Dept., Mississippi. Next position: Unknown. Permanent address: c/o Mississippi State Board of Health, Jackson, Miss.



M. K. MUZAYYIN

Palestine Refugee—M.D., American Univ. of Beirut, 1946. Physician. Wife: Shuhtrat; Sons: Nash'at, Nasrat; Daughters: Lily, Nuhad. Field of concentration: Public Health Practice. Last position: Field Health Officer, UNRWA, Syria. Next position: Same. Permanent address: 78 Al Kusour St., Damascus, Syria.





ALFRED KURT NEUMANN

U.S.A.—A.B., Univ. of Wisconsin, 1952; A.M., Univ. of Wisconsin, 1955; M.D., New York Univ., 1958; M.P.H., Harvard Univ., 1960. Public Health Practice. Wife: Charlotte; Sons: Frederick Kofi, Peter Anil. Field of concentration: Public Health Practice. Last position: Asst. Director, Division of Cancer and Chronic Disease, Mass. Dept. of Public Health. Next position: Same. Permanent address: 177 Davis Ave., Brookline 46, Mass.

ROBERT STANTON NICHOLS
Major, U. S. Army

U.S.A.—B.A., Lehigh Univ., 1950; Ph.D., Univ. of Rochester, 1956. Clinical Psychology. Wife: Rose Ann; Sons: David, Steven; Daughter: Kathryn. Field of concentration: Community Mental Health (Public Health Practice). Last position: Chief Psychologist, Mental Hygiene Consultation Service, Ft. Bragg, N. C. Next position: Medical Field Service School, Ft. Sam Houston, San Antonio, Texas. Permanent address: c/o Mr. A. Deane Nichols, 176 Union Ave., Clifton, N. J.



DAVID MORRIS NITZBERG

U.S.A.—A.B., Columbia Coll., 1956; M.S., Ohio State Univ., 1957. Biostatistics. Wife: Roslyn; Sons: Michael, Steven. Field of concentration: Biostatistics. Last position: Systems Analyst, Inst. of Naval Studies, Cambridge, Mass. Next position: Unknown. Permanent address: 22 Stimson Ave., Lexington 73, Mass.





DEIRDRE M. O'CONNOR

U.S.A.—L.R.C.P. & S.I., Royal College of Surgeons, Ireland, 1956. Public Health Physician. Widow; Son: Matthew; Daughter: Deirdre. Field of concentration: Maternal and Child Health. Last position: Physician, Toledo Health Dept., Toledo, Ohio. Next position: Unknown. Permanent address: 69-41 112th St., Forest Hills, N. Y.



JOHANNES M. V. OOMEN

Holland—M.D., State Univ., Utrecht, 1961. Physician. Single. Field of concentration: Tropical Public Health. Last position: Assistantship, University Hospital. Next position: Same. Permanent address: Noolseweg 2, Laren (N-H), The Netherlands.

LILABATI PATTANAİK

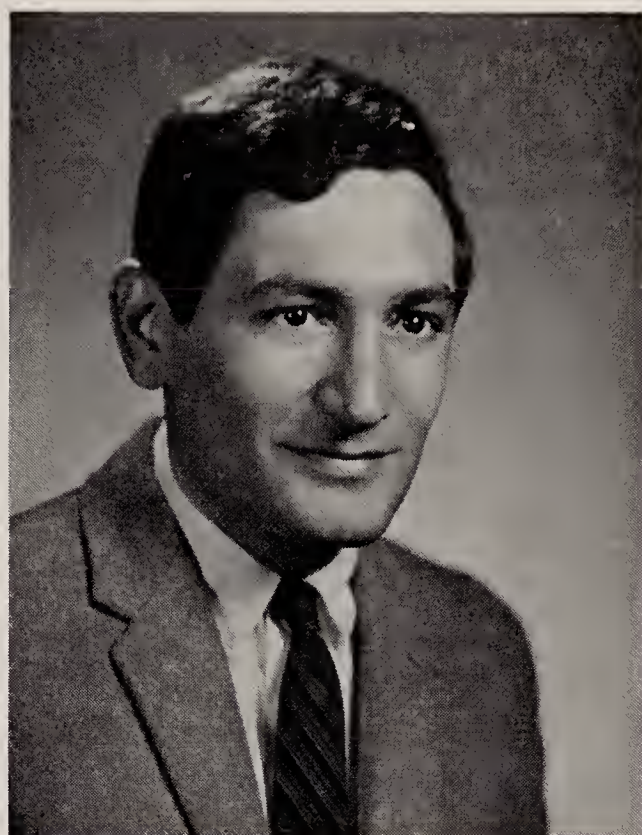
India—M.B.B.S., Utkal Univ., 1953; D.M.&C.W., Calcutta Univ., 1955. Public Health Physician. Single. Field of concentration: Unspecified. Last position: School Health Officer, Orissa, India. Next position: Unknown. Permanent address: c/o Dr. G. C. Pattanaik, P.O. Keonjhar Garh, Orissa, India.





PRESENTACION C. PERALTA

Philippines—M.D., Univ. of Philippines, 1946; M.P.H., Univ. of the Philippines, 1958. Physician. Single. Field of concentration: Epidemiology. Last position: Asst. Prof. of Preventive Medicine and Public Health. Next position: Same. Permanent address: Ramon Magsaysay Memorial Medical Center, Aurora Blvd., Quezon City, Philippines.



F. XAVIER PI-SUNYER

U.S.A.—B.A., Oberlin Coll., 1955; M.D., Coll. of Physicians and Surgeons, Columbia Univ., 1959. Internal Medicine. Wife: Penelope. Field of concentration: Tropical Public Health. Last position: Jr. Registrar, St. Bartholomew's Hosiptal, London, England. Next position: Dept. of Tropical Health, H.S.P.H. Permanent address: 70 E. 10th St., New York 3, N. Y.



STEPHEN J. PLANK

U.S.A.—Ph.B., Univ. of Chicago, 1948; A.B., Univ. of California, 1951; M.D., Univ. of California, 1955; M.P.H., Harvard Univ., 1961. Physician. Wife: Jean; Son: Tino; Daughter: Suzanne. Field of concentration: Microbiology. Last position: Health Department, Panama Canal Zone. Next position: Unknown. Permanent address: P.O. Box 2005, Carmel, Calif.

EARL S. POLLACK

U.S.A.—B.S., Univ. of Minnesota, 1947; M.A., Univ. of Minnesota, 1948. Statistician. Wife: Judy; Daughter: Joan. Field of concentration: Biostatistics. Last position: Chief, Hospital Studies Section, Biometrics Branch, National Inst. of Mental Health. Next position: Same. Permanent address: 11212 Bybee St., Silver Spring, Md.



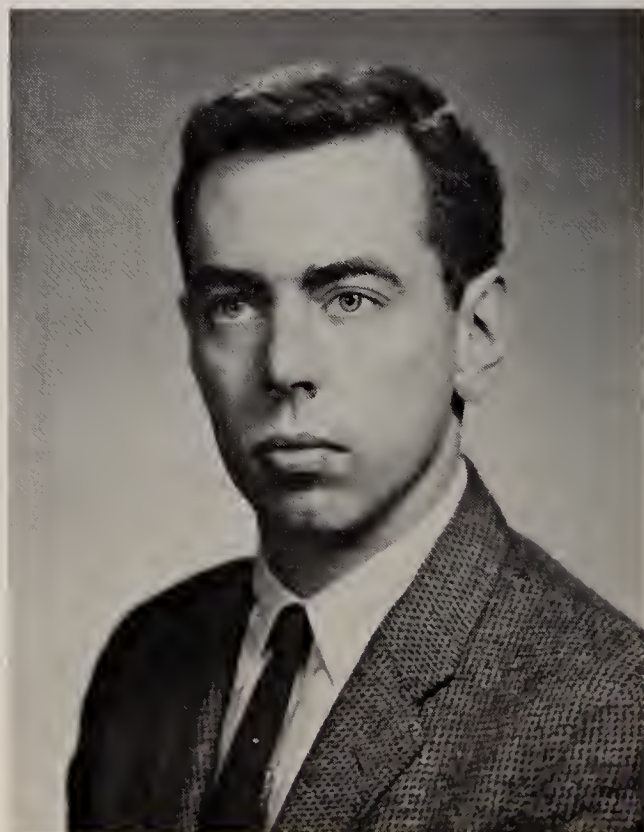
HELEN REINHERZ

U.S.A.—A.B., Wheaton Coll., 1944; M.S., Simmons Coll., 1946; S.M.Hyg., Harvard Univ., 1962. Psychiatric Social Worker. Husband: Sam; Son: Ellis. Field of concentration: Community Mental Health (Public Health Practice). Last position: Consultant, Psychiatric Social Work. Present position: Doctoral Candidate, H.S.P.H. Permanent address: 17 Corey Road, Malden, Mass.



PARKER CRAMER REIST

U.S.A.—B.S., Penn. State, 1955; S.M., Mass. Inst. of Technology, 1957. Sanitary Engineer. Wife: Janet. Field of concentration: Radiation Hygiene (Environmental Health). Last position: Div. of Radiological Health, Public Health Service. Next position: Unknown. Permanent address: 720 N. Allen St., State College, Pa.



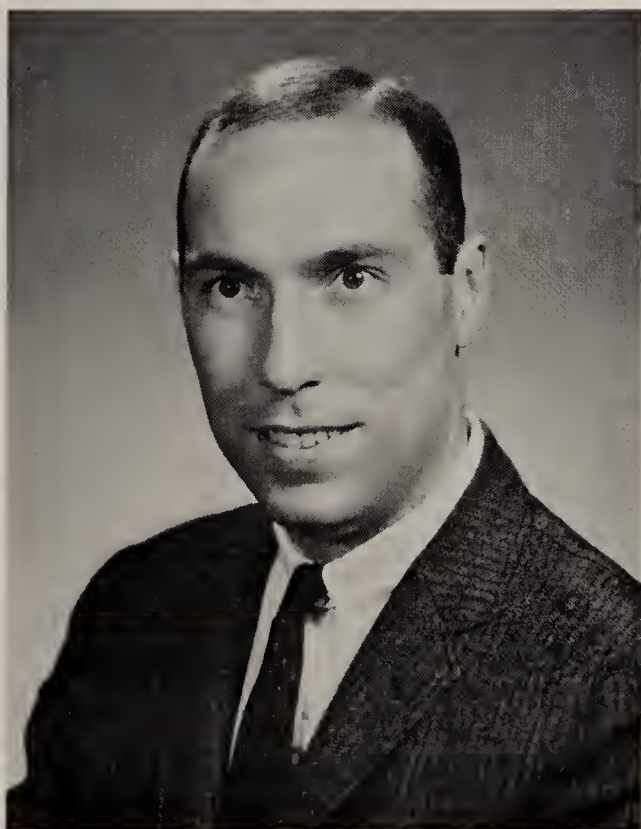


LEO HAROLD RILEY

U.S.A.—A.B., Boston Coll., 1940; M.D., Boston Univ., 1943. Internal Medicine (Problems of the blind). Wife: Eleanor; Sons: Leo, David, Mark, John; Daughters: Lenore, Marla, Maureen, Norma. Field of concentration: Biostatistics. Current position: Director of Research, American Center for Research in Blindness and Rehabilitation. Permanent address: 525 Walnut St., Newtonville 60, Mass.

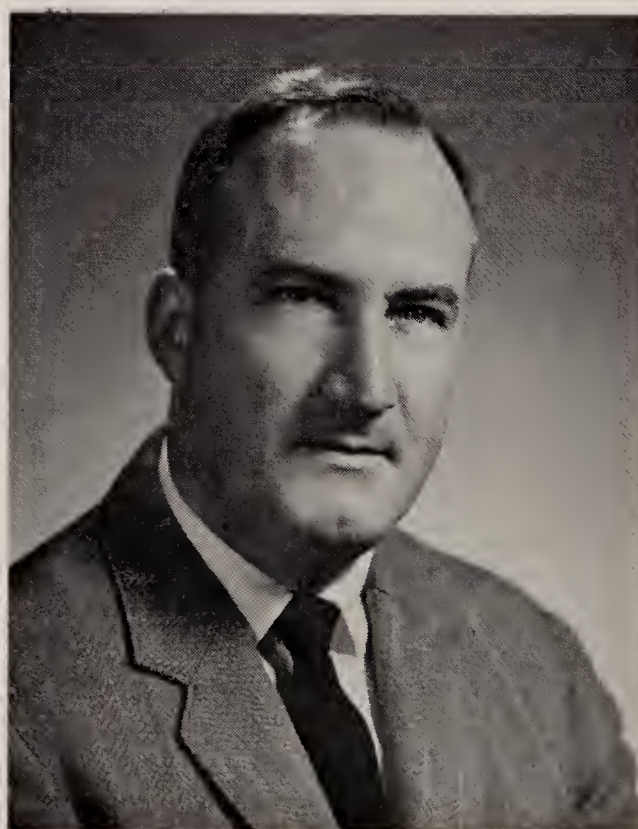
DONALD J. ROSATO
Captain, U. S. Army

U.S.A.—M.D., Temple Univ., 1959. Flight Surgeon. Wife: Lillian; Sons: Thomas, Donald. Field of concentration: Aviation Medicine (Environmental Health). Last position: Chief, Aviation Medicine, Camp Wolters, Texas. Next position: Residency in Aerospace Medicine, Brooks Air Force Base, Texas. Permanent address: 176 E. Conestoga Road, Devon, Pa.



PAUL M. ST.-AUBIN

U.S.A.—M.D., Univ. of Toronto, 1946. Radiologist. Single. Field of concentration: Epidemiology. Last position: Associate Radiologist, Mass. General Hospitl. Next position: Professor of Radiology and Chairman of Dept., Univ. of Nebraska Coll. of Medicine. Permanent address: Radiology Dept., Univ. of Nebraska College of Medicine, Omaha, Neb.





SALEH SAGHEB

Iran—M.D., Teheran Univ., 1951. Public Health Physician. Wife: Mahdiah; Son: Nasser. Field of concentration: Public Health Practice. Last position: Director of Azerbaijan Public Health Dept., Tabriz, Iran. Next position: Unknown. Permanent address: c/o Azerbaijan Public Health Dept., Tabriz, Iran.

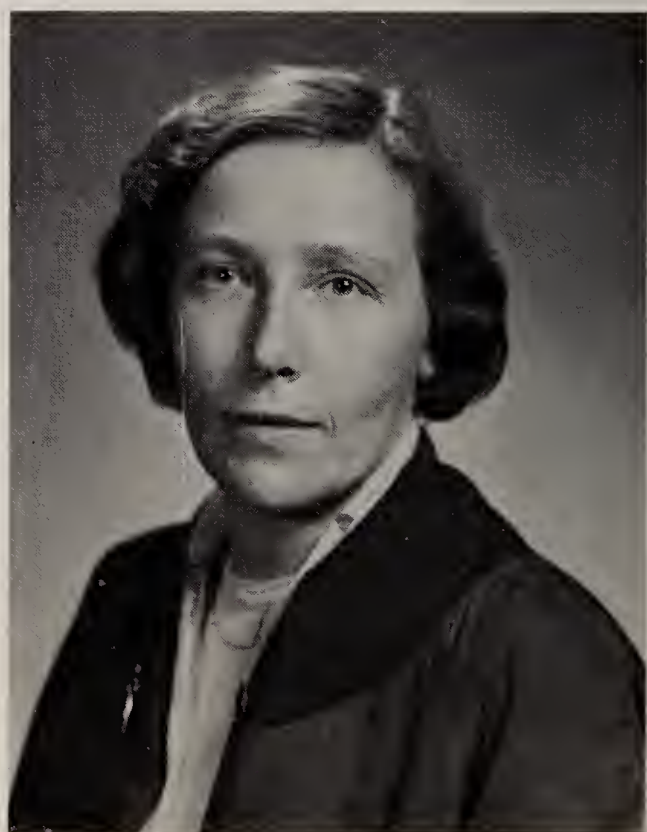


ARTHUR J. SALISBURY

U.S.A.—S.B., Yale Univ., 1948; M.D., Harvard Med. School, 1952. Pediatrics. Single. Field of concentration: Maternal and Child Health. Last position: Private practice. Next position: Unknown. Permanent address: 362 Marlborough St., Boston, Mass.

MARGARETHE SANNE

Germany—M.D., Dusseldorf Univ., 1954; D.S.H., Hamburg Univ., 1959. Internal and Tropical Medicine. Single. Field of concentration: Tropical Public Health. Last position: Research Asst., Institute of Hygiene, University of Hamburg. Next position: Further studies in epidemiology. Permanent address: Rettershof, Taunus, Germany.





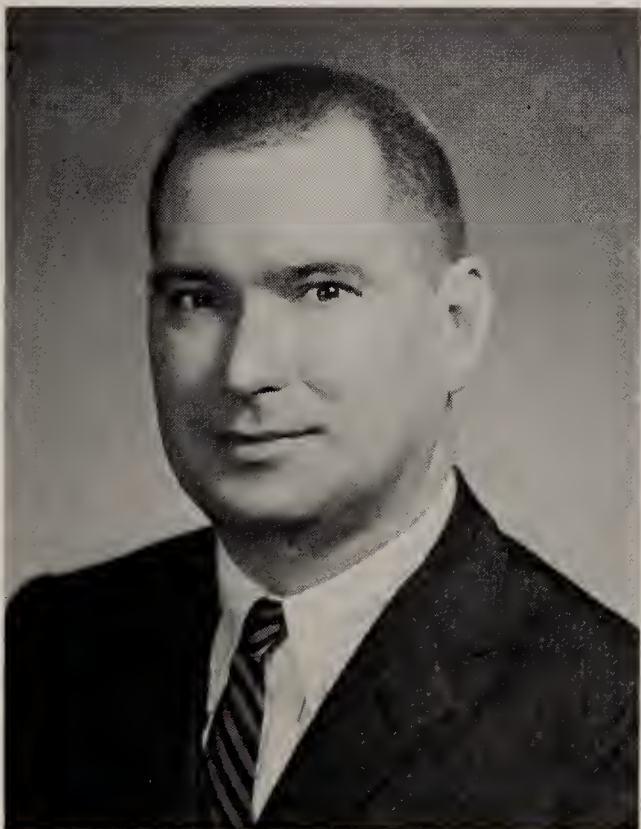
DAVID SCHOTTENFELD

U.S.A.—A.B., Hamilton Coll., 1952; M.D., Cornell Medical Coll., 1956. Internal Medicine. Wife: Rosalie. Field of concentration: Epidemiology. Last position: Clinical and Research Fellow, Memorial Center and Sloan-Kettering Cancer Research Institute. Next position: Instructor, Dept. of Preventive Medicine, Cornell Medical Coll.; Clinical Asst., Dept. of Medicine, and Asst. Director, Admitting and Diagnostic Clinic, Memorial Cancer Center, New York City. Permanent address: 396 Stockholm St., Brooklyn 37, N. Y.



HERBERT C. SCHULBERG

U.S.A.—B.A., Yeshiva Coll., 1955; M.A., Columbia Univ., 1956; Ph.D., Columbia Univ., 1960. Clinical Psychologist. Wife: Phyllis; Son: Mark; Daughter: Michelle. Field of concentration: Community Mental Health (Public Health Practice). Last position: Fairfield State Hospital, Newtown, Conn. Next position: Director of Research, Massachusetts Mental Health Planning Commission, Boston. Permanent address: 94 Pierce Road, Watertown, Mass.



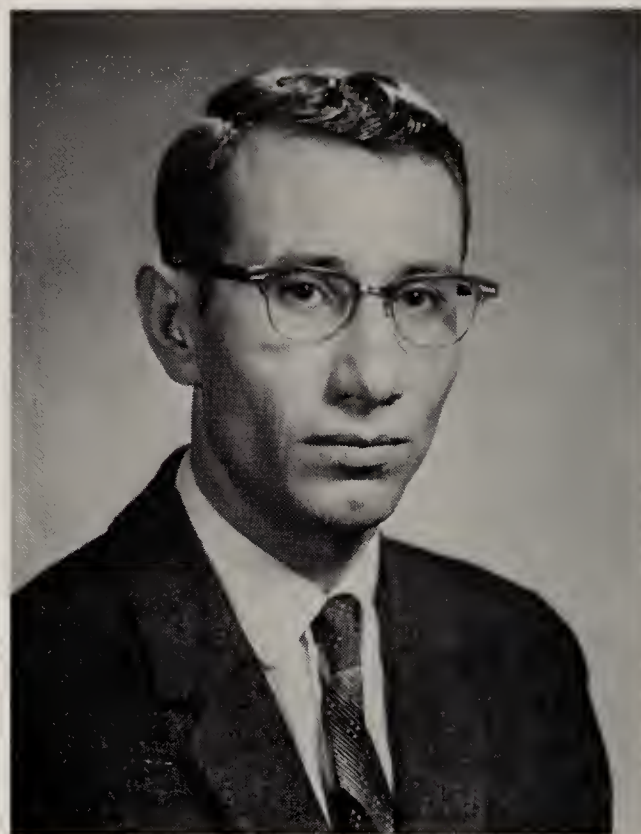
JOHN THEODORE SCHWARTZ

Senior Surgeon, U.S.P.H.S.

U.S.A.—A.B., Dartmouth Coll., 1947; M.S., Univ. of Notre Dame, 1950; M.D., Jefferson Medical Coll. of Philadelphia, 1955. Physician (Ophthalmologist). Wife: Dolores; Sons: John, Erich, Joseph; Daughter: Lisa. Field of concentration: Epidemiology and Biostatistics. Last position: Asst. Prof. of Ophthalmology, Univ. of Missouri. Next position: Epidemiology Branch, National Inst. Neurological Diseases and Blindness, Bethesda, Md. Permanent address: 616 Iron St., Lehigh, Pa.

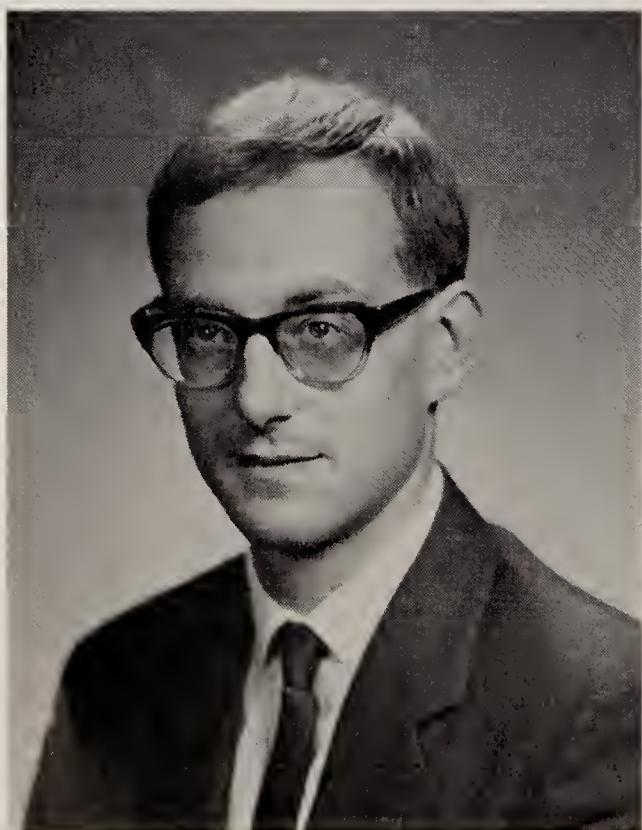
KAZEM SHAYAN

Iran—M.D., Teheran Univ., 1956; D.P.H., American Univ. of Beirut, 1960. Physician (Epidemiology). Single. Field of concentration: Public Health Practice. Last position: Deputy Director and Chief of Preventive Medicine, Public Health Dept., Fars Province, Shiraz, Iran. Next position: Unknown. Permanent address: Chaharsad Dastgah No. 31, Teheran, Iran.



ALAN SHELDON

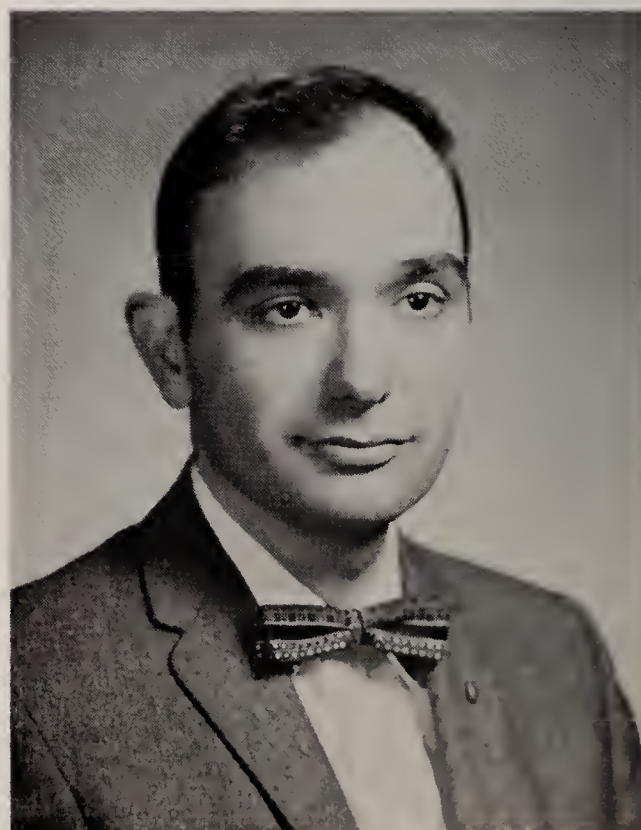
Great Britain—B.A., Cambridge Univ., England, 1954; M.B.B.Chir., Cambridge Univ., 1957; M.A., Cambridge Univ., 1958; D.P.M., 1961. Psychiatrist. Wife: Joy; Daughter: Louise. Field of concentration: Community Mental Health (Public Health Practice). Last position: Registrar, Warlingham Park Hospital, Survey, England. Next position: Research Assistant, Community Mental Health, H.S.P.H. Permanent address: c/o H.S.P.H., 55 Shattuck St., Boston 15, Mass.



BERNARD SHLEIEN

Pharm., Full Grade, U.S.P.H.S.

U.S.A.—Pharm.D., Univ. of Southern California, 1957. Radiological Health Officer. Wife: Deborah; Daughter: Sara. Field of concentration: Radiation Hygiene (Environmental Health). Last position: Asst. to the Chief, Radiological Intelligence, Robt. A. Taft Sanitary Engineering Center, Cincinnati, Ohio. Next position: Division of Radiological Health, U.S.P.H.S. Permanent address: 17 Radcliffe Rd., Allston 34, Mass.





ALVIN J. SIMMONS

U.S.A.—S.B., Boston Coll., 1952; S.M., Univ. of Mass., 1954; Ph.D., Univ. of Mass., 1960; S.M.Hyg., Harvard Univ., 1962. Psychologist. Wife: Joan; Sons: Christopher, Michael, John; Daughter: Polly Jane. Field of concentration: Epidemiology. Current position: Doctoral Candidate, Dept. of Epidemiology, H.S.P.H. Permanent address: 7 Middle St., So. Dartmouth, Mass.

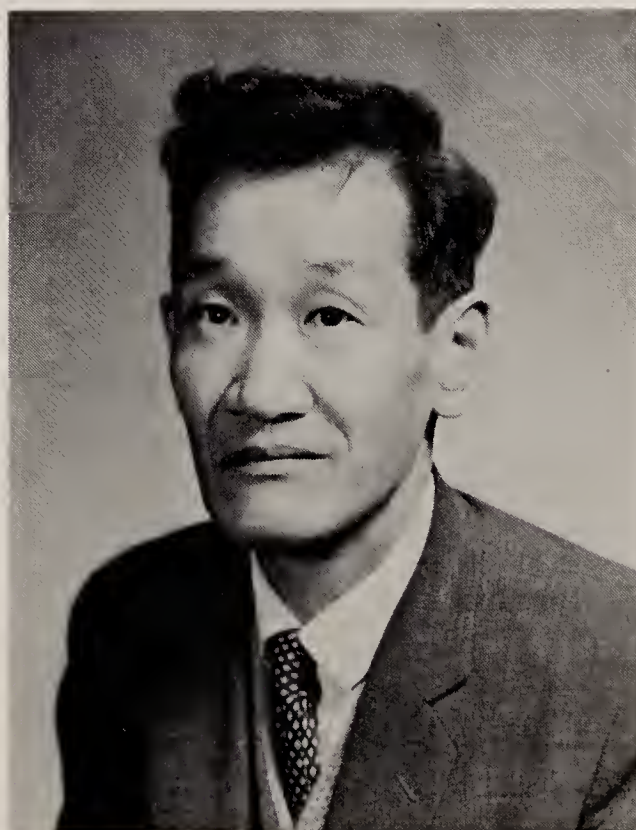
KAMESHWAR SAHAY SINHA

India—M.A., Univ. of Patna, 1955; Ph.D., Univ. of Delhi, 1961. Health Education and Social Sciences. Wife: Krishna. Field of concentration: Public Health Practice and Demography. Last position: Health Educator, Pilot Family Planning Education Unit, Govt. of India. Next position: Unknown. Permanent address: "Rajballabh-Bhawan," Dahiawan, Chapra (Bihar), India.



HIDEO SUZUKI

Japan—B.Agric., Univ. of Tokyo, 1945. Nutrition. Wife: Hideko. Field of concentration: Nutrition. Last position: National Inst. of Nutrition, Tokyo, Japan. Next position: Unknown. Permanent address: #RC 21 Oji House, 7, Oji 3-chome, Kita-ku, Tokyo, Japan.





DWIGHT WINGATE UNDERHILL

U.S.A.—B.E., Yale Univ., 1958. Chemical Engineering. Single. Field of concentration: Industrial Hygiene. Last position: Chemist, Fort Detrick, Md. Next position: Unknown. Permanent address: 4509 Burlington Place, Washington 16, D. C.



NICOLAS M. VAN DER HOFF

Holland—M.D., State Univ., Utrecht, 1949; Doctoral Degree, State Univ., Leyden, 1956. Public Health Physician. Wife: Maria; Sons: Leo, Paul, Tom; Daughters: Maria, Elisabeth. Field of concentration: Tropical Public Health. Last position: Senior Medical Officer, World Health Organization, Nigeria. Next position: Same. Permanent address: 54 Groenekansweg de Bilt, Holland.

ROBERT WAYNE VEIT

U.S.A.—B.S. in Eng., California State Polytechnic Coll., 1962. Air Conditioning and Refrigeration Engineering. Wife: Virgie; Son: Kevin. Field of concentration: Industrial Hygiene (Environmental Health). Last position: Engineer in Training, State of California. Next position: Unknown. Permanent address: 615 Goddard Drive, Visalia, Calif.





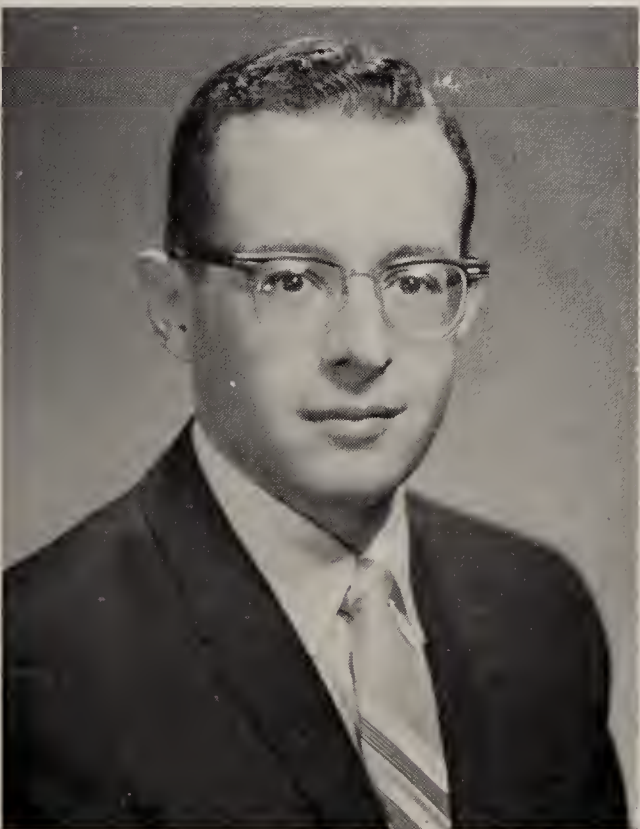
ELIZABETH WATKINS

U.S.A.—A.B., Bryn Mawr Coll., 1944; M.S.S.A., Western Reserve Univ., 1950; M.S. Hyg Harvard Univ, 1958. Medical Social Worker. Single. Field of concentration: Maternal and Child Health. Last position: Asst. Prof. of Social Work in Public Health, Univ. of Michigan. Next position: Doctoral candidate, H.S.P.H. Permanent address: 5 Cutler Ave., Cambridge, Mass.



DEBORAH WEISS

U.S.A.—B.A., Antioch Coll., 1962. Nutrition. Single. Field of concentration: Nutrition. Last position: Student. Next position: Same. Permanent address: River Forest, Illinois.



ALAN ZISKIND

U.S.A.—A.B., Columbia Univ., 1953; M.D., Boston Univ., 1957. Pediatrics. Wife: Barbara; Sons: Andrew, Mark, Michael. Field of concentration: Maternal and Child Health. Current position: Private practice of Pediatrics. Permanent address: 32 Douglas Road, Belmont, Mass.

NOT PICTURED

THEODORE GEORGIADIS

Greece—B.S., Athens Univ., 1957, Chemist. Single. Field of concentration: Radiological Health. Last position: Health Physics Dept., Nuclear Research Center "Democritos" Greek Atomic Energy Commissions, Athens, Greece. Next position: Same. Permanent address: 83 Venizelou Street, Nea Smyrni, Athens, Greece.

WILLIAM McCOURT

U.S.A. M.D., Royal Coll. of Surgeons, Ireland, 1954. Psychiatry. Wife: June. Field of concentration: Epidemiology. Last position: Research Fellow in Psychiatry, Mass. General Hospital. Next position: Same. Permanent Address: 67 Louis Prang St., Boston Mass.

HENRY E. SIMMONS

U.S.A. B.S., Univ. of Pittsburgh, 1951; M.D., Univ. of Pittsburgh, 1957 Physician (Internal Medicine). Wife: Sally; Daughters: Kathleen, Betsy, Molly. Field of concentration: Public Health Practice. Current position: Assoc. in Medicine, Tufts Medical School. Permanent address: 3 North St., Lexington, Mass.



Left to right—Mr. Husain, Dr. Malhotra, Dr. Chapman, Dr. van der Hoff.

CLASS OFFICERS

Dr. Calvin Chapman, *President*

Dr. Nicolaas van der Hoff, *Vice President*

Dr. Prabha Malhotra, *Secretary*

Mr. Syed Safdar Husain, *Treasurer*



*Seated, left to right—Mr. Husain, Dr. Malhotra, Dr. Chapman, Dr. van der Hoff. Standing—
Dr. Mason, Dr. Gibbons, Dr. Nichols, Dr. Hassler.*

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Dr. Calvin Chapman, *President*

Dr. Nicolaas van der Hoff, *Vice President*

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Mr. Syed Safdar Nusain, *Treasurer*

Dr. Robert Nichols, *Chairman, Yearbook Committee*

Dr. James Mason, *Chairman, Forum Committee*

Dr. Harry Gibbons, *Chairman, School Committee*

Dr. Ferdinand Hassler, *Chairman, International House Committee*



Seated, left to right—Dr. Challenor, Dr. Feinleib, Dr. Nichols, Dr. DeGeneres. Standing—Mr. Buncher, Dr. Oomen, Dr. Hark, Dr. Harrison.

YEARBOOK COMMITTEE

Dr. Robert Nichols, *Chairman*

Dr. Manning Feinleib, *Photography*

Dr. William Hark, *Photography*

Dr. Bernard Challenor, *Departmental Articles*

Dr. Grover Harrison, *Departmental Articles*

Dr. Johannes Oomen, *Student Write-ups*

Dr. Lanford DeGeneres, *Art Work*

Mr. Charles Buncher, *Layout*

Miss Claire Wasserboehr, *Secretary*



Seated, left to right — Mr. Khan, Dr. Pi-Sunyer, Dr. Mason, Dr. Hansen. Standing — Dr. Basu, Dr. Martinez-Silva, Dr. Abelin, Dr. Fiala, Dr. Challenor.

FORUM COMMITTEE

Dr. James Mason, *Chairman*

Dr. Theodor Abelin

Dr. Rabindra Basu

Dr. Bernard Challenor

Dr. Milan Fiala

Dr. Robert Hansen

Mrs. Bonnie Hassler

Mr. A. R. Khan

Dr. Ramiro Martinez-Silva

Dr. F. Xavier Pi-Sunyer



Seated, left to right—Mrs. Chapman, Mrs. Moore, Mrs. Nichols. Standing—Dr. Chapman, Dr. Moore.

SOCIAL COMMITTEE

Dr. Harry Gibbons, *Chairman*

Mrs. Imogene Chapman

Dr. Calvin Chapman

Mrs. Irene Moore

Dr. Steven Moore

Mrs. Rose Ann Nichols



Seated, left to right—Miss Martikainen, Mrs. Penrose, Mrs. Schwartz. Standing—Dr. Peng, Dr. Hassler, Dr. van der Hoff, Dr. Abelin.

INTERNATIONAL HOUSE COMMITTEE

Dr. Ferdinand Hassler, *Co-Chairman*

Dr. Nicolaas van der Hoff, *Co-Chairman*

Dr. Theodor Abelin

Mrs. Georgianna Bell

Miss Virginia Hannon

Miss Helen Martikainen

Dr. Tai-chan Peng

Mrs. Margaret Penrose

Dr. Stephen J. Plank

Mrs. Dolores Schwartz

Dr. Chris Ranier-Pope

Mr. Alfred Garron

INTERNATIONAL HOUSE

BY MRS. JEAN PLANK

Mrs. Plank and her husband, Dr. Stephen Plank, were one of the "pioneer" couples to whom she refers in this article, for they moved into International House in 1960, after previously living in the Panama Canal Zone. They have lived here ever since. She is thus uniquely qualified to speak of the benefits of "corporation living," for she has now had extensive experience with it.

IN September, 1960, some 141 residents, half from the United States and half from 22 other countries, moved into International House, a group of 69 remodeled apartments on Park Drive within easy walking distance of the School of Public Health. Thus, a dream was fulfilled, a dream that students and families from all over the world might live comfortably and conveniently under one roof. Now, three years and more than 400 residents later, International House is an unqualified success, and it would be a rare individual who did not regard his, or her, stay there as one filled with rich, warm, and worthwhile experiences and friendships.

It was not always so pleasant. Before International House, students had to find housing on their own. American students with cars and the rare foreign students who owned one could live in the suburbs if they were willing to endure the dangers and lost time involved in commuting in the congested Boston traffic. Those who sought housing closer to the school found it scarce, costly, cramped, and often squalid and dirty. Foreign students faced the added hazard of racial and religious discrimination. Mothers and children alike faced loneliness and isolation, confined to home by the long Boston winters, the lack of transportation, and the absence of reliable persons who could care for small children long enough to free their mothers from the drudgeries of daily rou-

tine. Mothers often found no congenial company to relieve the feeling of being a rootless transient in an indifferent, even hostile, city. Children often had no one their age to play with, and there are few more heartbreaking moments for a mother than to see her once-exuberant children become morose, lonely, and miserably frustrated because of isolation, lack of playmates, and the enforced inactivity imposed on them by small dwellings. For the foreign wife the situation was especially poignant, handicapped as she often was by an imperfect command of English and a lack of familiarity with American customs.

Today, however, the life of a wife living in International House no longer bears any recognizable resemblance to that of her counterpart of 1959 and the dreary years before. Actually, almost the reverse problem amusingly prevails—the risk of over-sociability is now a hazard for mothers already naturally gregarious by nature. Unless a mother resolutely budgets her time with ever-

INTERNATIONAL HOUSE LIBRARY SUBCOMMITTEE

Seated, left to right—Mrs. Jill Rainier-Pope, Dr. John Schwartz, Mrs. Judy Jurgiel. Standing—Dr. Chris Rainier-Pope, Dr. Howard Rubenstein, Dr. Jirair Arsenian. Absent—Miss Virginia Hannon, Chairman.





INTERNATIONAL HOUSE MUSIC-RECORDS SUBCOMMITTEE

Seated, left to right—Dr. Tai-chan Peng (Chairman), Mrs. Rose Ann Nichols. Standing—Mr. Mohammad Afzal, Dr. Bernard Challenor, Dr. Jirair Arsenian. Absent—Dr. Johannes Oomen.

renewed determination she will find that with beguiling ease her days can be quickly dissipated in a pleasantly endless round of neighborly chatter. Even such a well-intentioned excursion as a quick trip to the mailbox is fraught with danger, and is very apt to become a half-hour exchange of friendly gossip on the stairs, or mid-morning coffee at someone's apartment. The laundry room has become a contemporary version of the fountain in the old village square. While women gather each morning to do their laundry, their children spill over into the adjoining playroom. Mothers, agile through years of necessity at juggling several things simultaneously, are able to keep both an eye on the toddlers and the washing, yet at the same time enjoy an hour's visiting.

The children's environment has enjoyed as heartwarming a change as that of their mothers. Youngsters seem to tumble out of almost every apartment in wild, wonderful profusion. If the single students don't always find their boisterous clamor entirely enchanting, they seem to have a marvelous capacity for tolerance, and the sound is

sweet music to the mothers' ears. Children come in all sizes, sexes, shapes and ages from toddling tots to aged, tottering eight-year olds. Not only has nature provided nearly every child with an abundance of playmates his own age, but the School of Public Health has generously and thoughtfully provided both a playroom and a playground in which they can happily expend much of their boundless energy. The playroom is not only used for spontaneous free play, but two mornings a week there is a more formalized play session for preschoolers which is run on a cooperative basis by the mothers themselves. The idea originated with one of the more resourceful pioneer mothers of 1960 and has eagerly been perpetuated every year by each new group of women.

The School of Public Health has shown the same spirit of magnanimous consideration for the recreational and social needs of the parents as for their children. Although mothers are not noted for languishing about with a surfeit of

INTERNATIONAL HOUSE PLAYROOM- PLAYGROUND SUBCOMMITTEE

Seated—Mrs. Rose Ann Nichols. Standing, left to right—Mrs. Dolores Schwartz, Mrs. Jean Plank, Mrs. Irene Moore, Mrs. Georgianna Bell (Chairman)



leisure hanging heavy on their hands, for any mother who can sprint through her day with the same speed and efficiency usually reserved for automatic devices, there is an intriguing world awaiting her below in the "Students' Lounge." Not only are there libraries of both music and books with enough fascinating, absorbing listening and reading for even the most demanding and discriminating, but, in addition, for anyone with either the talent or the penchant there is a ping pong table, a TV lounge and another music room with a handsome, upright Steinway. Aside from all these "do-it-yourself" diversions, there is a Social Committee, formed each year by the class students, whose imaginative efforts every month offer a full and varied schedule of events—everything from informal Friday social hours to special occasions at Christmas and New Year's. The Forum Committee shows equal energy, arranging for a series of presentations by students from the United States and abroad, during which beautiful colored slides are shown, informative talks are given, national products and *objects d'art* are displayed, and national dishes served—something for every taste!

When the parents find a free moment and wish to visit friends or explore the delights of Boston, the usual problem of finding a baby sitter is easily solved. Through the cooperative efforts of mothers (and sometimes the fathers, too!) a baby-sitting pool is formed each year and parents take turns watching each other's youngsters, an arrangement often supplemented by informal "listening" agreements with the neighbor "across the hall" or "down the corridor." Occasionally, the sitter turns out to be a pediatrician, child psychologist or nurse—the kind of service few apartment houses can match!

Perhaps the criticism of some that International House suffers from over-communalization, and that it is a rabbit warren with everyone living in each other's pockets, may have occasional validity; but if this be so, we Moms prefer to leave such sober speculation for the social psychologist to fret about. As for us, if this is "corporation living," we love it!



INTERNATIONAL HOUSE NURSERY SCHOOL
SUBCOMMITTEE

Left to right—Mrs. Georgianna Bell (Secretary), Mrs. Barbara Martinez (Schedule Chairman), Mrs. Bonnie Hassler (Chairman), Mrs. Yoshiko Takahashi (Teaching Aide), Mrs. Ann Milic-Emili (Teacher).

INTERNATIONAL HOUSE NURSERY SCHOOL
STUDENTS



LIFE IN INTERNATIONAL HOUSE

BY MRS. BARBARA U. DE MARTINEZ

Mrs. Martinez is typical of many of the wives in International House in having a truly international background. She is of German birth, her husband is Spanish, and they came to Harvard after serving in Bogota, Colombia. In this article, Mrs. Martinez describes her impressions of the year she spent in the International House.

“SOMEBODY knocking at the door? You want to hear a little about our year here in the International House? So please sit down and I will tell you what shall be my memories, and won't they be yours, dear neighbor?”

In the last days of summer we came. The apartments were still yawning, the walls waiting for dirty fingers or last touches of “make-up,” and the hallways and stairs looking forward to quick steps and noisy children. But at once, one after the other, the names began to appear on the mailboxes and bells, and we read them, guessing from where we all could have come. Fortunately our neighbor had also crying children as we did, but oh, poor bachelor underneath, we will feel guilty if you become more than ever convinced that your status is the perfect one.

We knew each other immediately, first as “the mother of Hilary” or the “father of Mark” and then between unpacking and settling, we met—in the laundry—where we really began to share our problems and also our pies, and later on even forgot our laundry. We have had so many things in common: forgetting to buy sugar, or borrowing a dime, and how many times have you heard that there is so much fun in the playroom, but that “he had hit my poor child” and “you did not know what your child had done to him.”

So it started and so it went on. Our daily life

and our free time we lived together. The day of a colorful autumn picnic, the day when, many years ago, Columbus had discovered the New World, we discovered our new friends.

But the time was passing quicker than ever, and it was Halloween already with joyous children and candies all over the house, and Thanksgiving Day with a wonderful dinner, where again some extra pairs of hands became visible as so often in the following time, when there was a need to smooth a little obstacle or to make our lives more easy and pleasant. And the time flew on, Christmas came with a “real” Santa Claus, and fathers, imagine what kind of “budget” he must have every year with so many children all over the world waiting for him. And now it was already New Year's Eve. “Could you join our party or did you have one of those cases of flu which passed from one door to the other?” But now we looked forward for the spring, and the doors of the “studies” opened, not wide, but a little, just enough to try the baked beans and the Boston cream pie. We could follow now the steps of Revere, and could see something of our surroundings, even Salem, for example, where the witch-burning started. Can you imagine that our ancestors could have had such unpleasant neighbors?

Now that we will return wherever we have come from once more, we are sure that our husbands and friends cannot be worth less than an “A.” And, when we look back, we see how big a suitcase we take with us full of what we have learned from each other and each other's homes. I would like to tell you our fortune just a bit: there will be many times when we will all wish to go back and have another year in the International House, and we will again say “thank you” to all the friends who have made us a home among neighbors such as I think we will never have again.

HISTORY OF THE HARVARD SCHOOL OF PUBLIC HEALTH

BY ROBERT S. NICHOLS, PH.D.



PUBLIC health activities are so complex that they require a very broad range of professions and skills. It is one of the key strengths of the Harvard School of Public Health that it is able to attract students who possess these varied talents, and offer them an unusually broad program of instruction and an intellectual climate that encourages bold and imaginative thinking. It is not surprising that the School has developed such a stimulating educational life, for it shares the traditions of its parent, Harvard University, which has stood for vigorous scholarship, inspired teaching, and devoted public service since its founding more than three centuries ago.

Harvard was founded in 1636, only 16 years after the Pilgrims settled in America, which indicates the importance the early settlers placed on education. It is America's oldest and wealthiest university, and its effect on American life has been equalled by few universities and exceeded by none. Two facts may serve to illustrate its influence: six American presidents, including Theodore Roosevelt, Franklin Roosevelt, and John Kennedy, have been educated at Harvard; and

10% of its students each year come from foreign countries, so that its influence extends throughout the world.

Harvard began under the joint control of Church and State, and its early years were spent in a struggle to win the freedom that was essential to its ultimate greatness. By 1700 its private income exceeded state grants, in 1707 its first non-clerical president was installed, and by 1789 it had become a university. In 1833 it received its last public grant and in 1865 it severed all connections with the state. It had become an independent, non-sectarian private university, free to study and teach wherever truth might lead. For such a university, the motto of *Veritas* was most appropriate, for few universities have been more energetic in searching for truth, and in applying it, regardless of the pressures of the moment.

This early struggle for independence was not accompanied by rapid growth. The first class of 1642 had 9 graduates, and two centuries later there were only 56 graduates in the class of 1842. Yet the foundations for greatness had been laid,



and the University had already educated John Adams, John Quincy Adams, Robert Paine, and many others whose lives shaped the early years of the American nation. The roster of Harvard graduates contained names that would loom large in American life, such as Longfellow, Emerson, Thoreau, and Holmes, and others of equal stature were yet to come. Under President Eliot (1869-1909) the University underwent a tenfold expansion, and there was another period of expansion in the early years of President Lowell's tenure (1909-1933). When President Conant (1933-1953) took office, the University had taken on much of its present form, but it remained for him and President Pusey (1953-) to bring to full fruition the traditions of intellectual freedom, vigorous inquiry, and dedicated service that characterize Harvard. The university that began with a class of 9 had grown by the 1960's to an enrollment of nearly 14,000 and an annual graduating class of 3,500.

As the University grew, it added many special schools, including medicine (1782), law (1817), divinity (1819), dentistry (1867), business (1908) and education (1920). In 1909 it made

an early venture into public health by establishing in the Harvard Medical School the first department of preventive medicine in the United States, and two years later the first degree of Doctor of Public Health was awarded. In 1913 a department of tropical medicine was organized, and in the same year Harvard and the Massachusetts Institute of Technology founded a School for Health Officers, which became the Harvard-MIT School of Public Health in 1918. The school operated eight years, with an average of 30 students yearly.

A Rockefeller Foundation grant of \$1,750,000 in 1922 permitted the establishment of a separate Harvard School of Public Health under the control of the Harvard Medical School. The new school began with programs in Bacteriology, Preventive Medicine and Hygiene, Tropical Medicine, Parasitology, Applied Physiology, Industrial Hygiene and Sanitary Engineering, and it soon expanded to include Vital Statistics, Public Administration, Child Hygiene, Mental Hygiene, Communicable Disease, Ventilation and Illumination. New programs were later developed in medical economics, general social relations, field



work in epidemiology and vital statistics, child and industrial health, and many cooperative efforts with community health agencies were begun.

By 1946 the school had grown and taken on many added responsibilities. It had reached an average enrollment of 60 students, and had contributed significantly to American and world public health. However, its status as part of the Medical School seemed to place restraints on its further growth and development. A committee investigated the problem, and recommended that the school be separated from the Medical School and be given its own Dean and faculty. A grant of \$100,000 per year for ten years was obtained from the Rockefeller Foundation and in 1946 the autonomous Harvard School of Public Health was created with programs in Public Health Engineering, Industrial Hygiene and Toxicology, Physiology and Ecology, Nutrition, Epidemiology, Biostatistics, Maternal and Child Health, Public Health Practice and Tropical Medicine.

The years since 1946 have amply justified the decision to establish an autonomous School, for it has grown and prospered. The faculty has expanded, and the student enrollment has increased to 100 each year. The School's programs of teaching, research, and service have expanded both at home and abroad. The annual budget now exceeds \$3.5 million. Two-thirds of this sum comes from the Federal government, which has fully recognized the benefits that better public health can offer the nation. Another major source of income has been the generosity of many individuals, charitable foundations and industrial corporations, whose wisdom and sense of public service have greatly benefited the School and its work. So many new programs have been created that only a few can be mentioned, such as those in community mental health, aviation medicine, demography and human ecology, economics and administration of medical care, public health social science, radiological hygiene and many



others. Each year new areas of public health need are identified and met. The role of non-physicians in public health has expanded steadily, so that a third of the students now come from fields other than medicine. Another development has been the increased training of foreign students, who currently constitute a third of each year's class. As they return from Harvard, they help their own countries to solve the pressing health needs which bar their further growth and development, and the influence of the School becomes truly international, an influence which is further strengthened by the many consultative visits which faculty members make to foreign countries.

The School of Public Health of today is the logical outgrowth of Harvard's centuries-old tradition of freedom and service. With the other schools of the University, it continues to serve the nation and the world with the energy, the imagination and the intelligence that have become Harvard hallmarks, and it looks forward to helping master the new health problems of both the modern and the less developed countries with the same determination and skill it has shown in the past.



HARVARD SCHOOL OF PUBLIC HEALTH, HISTORY OF THE CLASS OF 1963

BY CALVIN C. CHAPMAN, M.D.

FROM many countries around the globe we arrived in Boston in September 1962. The first problem for most of us was housing. In spite of the improvement International House has contributed, housing is still a very difficult problem for at least half the students, especially those with several children. We registered September 17th, and there followed an orientation week for the students from overseas. They were introduced to Harvard, to Boston, and to the life-threatening hazards of driving and walking on the Boston streets. Classes began September 24th, and many of us who were strangers to studying had to shift into academic gear again.

In the early weeks our acquaintances broadened as car pools, seminar groups, Biostat. mutual aid associations, the Huber Room Brown Bag Club, and so on were formed. The annual fall picnic on October 12th, arranged by the faculty at Dublin, New Hampshire, combined brisk weather, beautiful fall coloring and fine opportunities for expanding friendships.

The third week in October found the Class engaged in elections. This small, local affair was overshadowed by the Cuban Crisis and the Communist Chinese invasion of India. During the nominations and voting for Class officers, there was ample evidence that public health students have a keen working knowledge of old-fashioned politics.

In November, the first of many late Friday afternoon Social Hours took place at the International House, which was the center of social and cultural activities throughout the year. Minds and microscope-weary eyes from Tropical Public Health lab enjoyed hard-earned relaxation. On November 18th, the first of the many excellent

Forum Committee programs was presented by the students from India. On December 1st, the Flight Surgeons explained and illustrated their profession, and Dr. Martinez-Silva showed colored slides of South and Central America.

Christmas was ushered in by a party for the children, complete with Santa Claus. There was another very festive party for the adults, filled with good cheer and singing, during which Dr. Paul Hoffman delivered a superb discourse on





"Scientific Greeting Making As Fact." Before Christmas vacation began, the rigors of the Louisville budget report and the Public Health Practice term paper were successfully weathered by most of us. The New Year found us with only half a dozen or so final exams to face after two weeks of Christmas "vacation."

Like birth, death and taxes, final exams come and go—and they did. Then came the blissful two-week between-semester period for individual research, library work, or travel (or skiing . . . or nothing . . .). In early February we returned to school to hear about the adventures students had (professionally, of course) in Washington, D.C., Atlanta, Detroit, Canada, and other places. Dr. McFarland's aviation medicine group, with the help of high caloric intake and suitable internal antifreeze, had managed to survive the coldest week of the winter in New York City, while the Maternal and Child Health field trip had weathered the occupational hazards of sun tan, beach burn and exhaustion from the Twist in Puerto Rico.

The third quarter of the year found us widely separated, as there were no classes common to all as there had been during the first two quarters. One large contingent seemed rooted at the Huntington Avenue end of Shattuck Street, and other groups split their time between the buildings of 1 Shattuck and 55 Shattuck Street. Many Microbiology students became well acquainted with manipulating hens' eggs in the serial passage and culture of micro-organisms and viruses. The engineers, industrial hygienists and aviation medicine students became welding experts and old hands at inhaling dust, fumes and vapors in laboratory experiments and industrial plant visits around Boston. Other groups delved deeper into the mysteries of biostatistics, community medical care, nutrition and group dynamics.

In February and March there were more Social Hours and Forum programs. Dr. Robert Hansen organized an excellent colored slide display on the United States, and the Middle East students presented a superb exhibit on their part of the world. March ended with more final exams, followed by a week of vacation as spring weather swept into New England.

In April we enjoyed more fine Forum programs, one on Pakistan, Taiwan and the Philippines, one on Europe, and one on Africa. The last program of the year was presented by Dean Snyder and Dr. Burwell, who developed for us the histories of the School of Public Health and the Harvard Medical School. Mention should also be made of the Thanksgiving dinner in November and the Potluck dinner in April, two community events which made full use of the excellent kitchen facilities at International House.

The month of May found the weather beautiful, spring fever rampant and final exams and comprehensives upon. Again we weathered the ordeal, and graduation was next with Marshal Chapman leading the way.

The year was full, pleasant and rewarding. Whether or not the "book learning" is retained *in toto* becomes relatively unimportant as we realize that now we are acquainted with the principles and concepts necessary to apply public health fundamentals intelligently in any cultural setting anywhere in the world.

